



**ACIDIC PRECIPITATION IN ONTARIO
STUDY - ANNUAL STATISTICS OF
CONCENTRATION AND DEPOSITION
CUMULATIVE PRECIPITATION
MONITORING NETWORK, 1990**

JANUARY 1994

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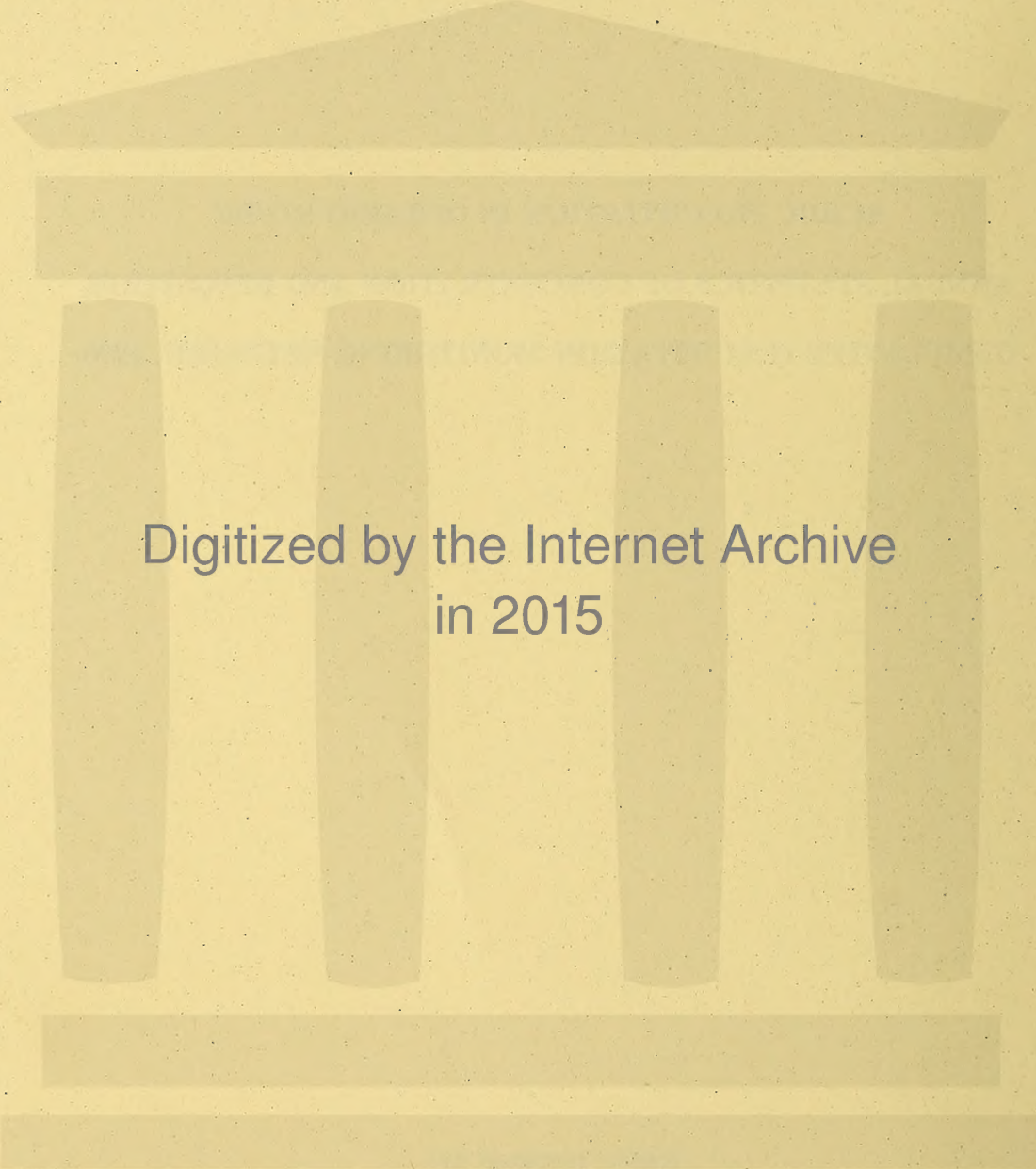


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ACIDIC PRECIPITATION IN ONTARIO STUDY
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Report prepared by:

Special Studies and Research Management Unit
Atmospheric Research and Special Programs Section
Air Resources Branch



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PART I

INTRODUCTION

INTRODUCTION

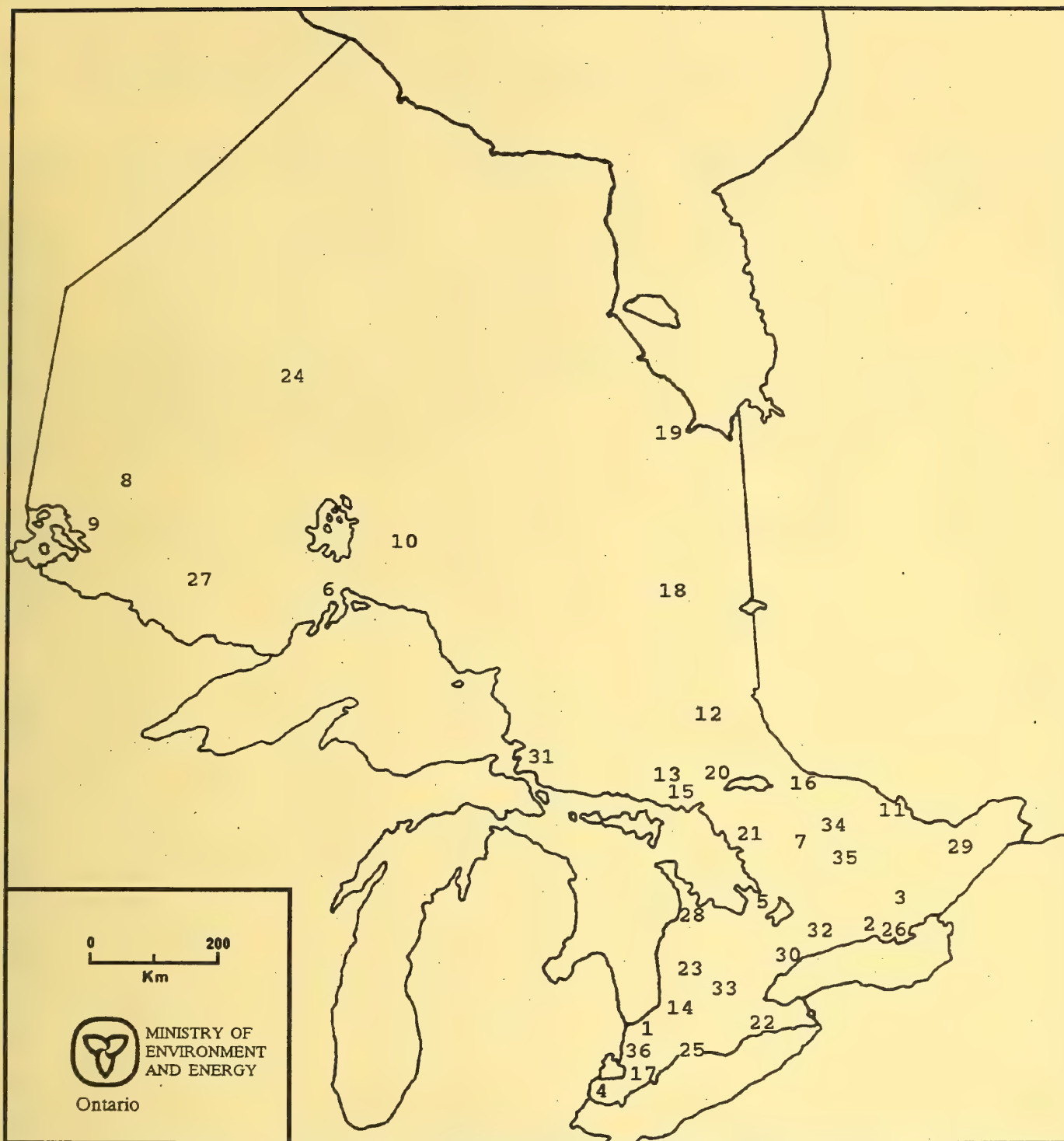
The statistical summaries presented in this report pertain to the 1990 analytical results obtained from the Acidic Precipitation in Ontario Study (APIOS) cumulative precipitation monitoring network. The relevant data can be obtained on request from the Air Resources Branch of The Ministry of Environment and Energy. All available data are utilized in the calculations except results reported as being unreliable (i.e., results are identified as unreasonable values by using the validation procedures; detailed description of the validation procedures is available from the Ministry upon request) or approximate (i.e., inexact results are reported due to laboratory difficulties, such as may be encountered in calibration, or when the sample cannot be re-analyzed to confirm the reported value). In a very few cases, concentration levels exceeded the upper limit of the range of the chemical analysis. Rather than using the upper limit, a decision was made to exclude these values from the statistics generated in this report. Reported results for metals which have missing leachate analysis are also excluded from statistical analysis. Results labelled as $<W$ are replaced by "zero". W is the level which the analytical technique cannot distinguish from zero. Prior to 1986, if a level was recorded less than the detection limit T , a value corresponding to one half the detection limit was utilized for statistical calculations as reported in the statistical summaries. These values are no longer halved. Note that T is normally about ten times W , and values

above the T criteria are considered to be precise and accurate. The reported cumulative precipitation gauge depth (or an interpolated value from Environment Canada's Climate data) is utilized in the calculation of deposition. If a precipitation gauge value is not available, then the collected sample volume is converted to its equivalent precipitation depth and is used in the deposition calculation.

The statistical summaries presented in Parts III to VI include number of samples, mean (arithmetic/geometric), standard deviation, maximum, minimum, quartiles and precipitation weighted means using precipitation gauge depths where appropriate. These statistics are for an average sampling period. Data which correspond to irregular sampling periods are either combined if they are from consecutive collection periods which span 28 ± 5 days, or deleted, before the statistics are generated.

PART II

STATION LOCATION



- | | | |
|-----------------|--------------------|--------------------|
| 1. ALVINSTON | 13. HANMER-2 | 25. PORT STANLEY |
| 2. CAMPBELLFOR | 14. HURON PARK | 26. PT. PETRE |
| 3. CLOYNE | 15. KILLARNEY | 27. QUETICO CENTRE |
| 4. COLCHESTER | 16. MATTAWA | 28. SHALLOW LAKE |
| 5. COLDWATER | 17. MERLIN | 29. SMITHS FALLS |
| 6. DORION | 18. MOONBEAM | 30. TORONTO ISLAND |
| 7. DORSET | 19. MOOSONEE | 31. TURKEY LAKES |
| 8. EAR FALLS | 20. MCFARLANE LAKE | 32. UXBRIDGE |
| 9. E.L.A. | 21. MCKELLAR | 33. WATERLOO |
| 10. GERALDTON | 22. NORTH DUFFERIN | 34. WHITNEY |
| 11. GOLDEN LAKE | 23. PALMERSTON | 35. WILBERFORCE |
| 12. GOWGANDA | 24. PICKLE LAKE | 36. WILKESPORT |

APIOS CUMULATIVE PRECIPITATION AND DEPOSITION NETWORK SITES

<u>MOE REGION</u>	<u>STATION NAME</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>NORTHING</u>	<u>EASTING</u>
Southwestern	Alvinston	42°49'36"	81°50'04"	4942000	431550
	Colchester	41°59'15"	82°55'41"	4650000	340300
	Dogs Nest East	41°48'40"	80°08'46"	4628943	570928
	Huron Park	43°17'28"	81°30'03"	4793000	459350
	Merlin	42°14'47"	82°13'30"	4676400	398950
	North Dufferin	42°59'39"	79°58'38"	4760459	583375
	Palmerston	43°48'19"	80°54'12"	4850050	507750
	Port Stanley	42°40'22"	81°09'55"	4724050	486700
	Shallow Lake	44°34'54"	81°05'24"	4936200	492850
	Waterloo	43°28'39"	80°35'09"	4813750	533500
	Wilkesport	42°42'11"	82°21'13"	4728350	389150
Central	Campbellford	44°27'28"	77°47'33"	4907600	277150
	Coldwater	44°37'31"	79°32'08"	4942200	615900
	Dorset	45°13'26"	78°55'52"	5009650	662400
	Toronto Island	43°39'15"	79°23'14"	4834511	630056
	Uxbridge	44°12'46"	79°12'38"	4896800	643000
	Wilberforce	45°00'54"	78°12'58"	4988150	719400
Southeastern	Cloyne	44°49'09"	77°11'45"	4964750	327100
	Golden Lake	45°36'48"	77°12'03"	5053200	328400
	Pt. Petre	43°50'20"	77°09'10"	4856015	326929
	Smiths Falls	44°56'41"	75°57'48"	4977100	423950
Northeastern	Gowganda	47°39'04"	80°46'32"	5277300	516600
	Hanmer-2	46°39'45"	80°56'37"	5167443	504314
	Killarney	45°59'26"	81°29'18"	5092900	462200
	Mattawa	46°16'45"	78°49'19"	5127150	667800
	McFarlane Lake	46°25'57"	81°57'03"	5142323	426948
	McKellar	45°30'57"	79°55'19"	5040600	583950
	Moonbeam	49°19'16"	82°08'46"	5463600	416650
	Moosonee	51°12'35"	80°42'20"	5673000	520550
	Turkey Lakes	47°03'15"	84°24'00"	5214250	696750
	Whitney	45°32'21"	78°15'35"	5045950	713950
Northwestern	Dorion	48°50'33"	88°36'45"	5228750	569500
	E.L.A.	49°39'22"	93°43'28"	5500950	447350
	Ear Falls	50°38'31"	93°13'13"	5609813	484424
	Geraldton	49°48'05"	86°46'00"	5516300	516750
	Pickle Lake	51°02'41"	90°12'04"	5658307	696198
	Quetico Centre	48°24'44"	91°12'08"	5363461	633035
Out of Prov.	Sutton	45°04'35"	72°40'35"	4993845	682897
	Wolf Ridge	47°23'00"	91°12'25"	5249100	635375

PART III

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY STATION

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: COLCHESTER MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
13	13	13	13	13	13	13	13	13	13
MAXIMUM	138.0	3862	48.00	4.51	5.60	0.97	0.43	0.33	0.770
MINIMUM	23.0	232	15.50	4.08	1.65	0.27	0.00	0.10	0.240
ARITH. MEAN	77.7	1980	27.72	4.29	3.19	0.53	0.25	0.20	0.444
ARITH. STD. DEV.	33.2	951	9.22	0.14	1.11	0.19	0.10	0.07	0.151
GEOM. MEAN	70.0	1642	26.28	4.29	3.01	0.50	0.28	0.19	0.419
1ST QUARTILE	57.0	1560	24.00	4.21	2.50	0.44	0.20	0.13	0.320
2ND QUARTILE	63.0	1828	26.00	4.30	2.95	0.49	0.23	0.22	0.460
3RD QUARTILE	96.0	2685	30.50	4.37	3.80	0.55	0.30	0.26	0.550
VOL. WGT. MEAN	.	2276	25.17	.	3.07	0.49	0.27	0.19	0.427
MISSING VALUES	0	0	0	0	0	0	0	0	0

# OF SAMPLES	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
13	13	13	13	13	13	13	13	13	13
MAXIMUM	0.150	0.280	0.140	0.910	0.067	5.80	0.37	18.00	63.00
MINIMUM	0.030	0.000	0.000	0.160	0.000	1.10	0.00	2.60	4.90
ARITH. MEAN	0.067	0.063	0.061	0.393	0.012	2.65	0.20	7.59	15.97
ARITH. STD. DEV.	0.030	0.084	0.046	0.188	0.017	1.25	0.13	4.13	17.52
GEOM. MEAN	0.061	0.051	0.065	0.355	0.011	2.39	0.34	6.68	10.93
1ST QUARTILE	0.045	0.020	0.030	0.278	0.004	1.80	0.11	5.60	6.40
2ND QUARTILE	0.065	0.025	0.050	0.336	0.006	2.40	0.20	6.40	8.00
3RD QUARTILE	0.080	0.045	0.090	0.476	0.013	3.20	0.33	8.20	19.00
VOL. WGT. MEAN	0.063	0.073	0.065	0.367	0.013	2.50	0.23	6.83	18.37
MISSING VALUES	0	0	0	0	0	0	0	4	4

# OF SAMPLES	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
13	13	13	13	13	13	13	13	13
MAXIMUM	3.10	0.36	95.00	2.89	0.82	0.27	112.00	83.18
MINIMUM	0.48	0.07	9.50	0.22	0.00	0.00	38.20	30.90
ARITH. MEAN	1.61	0.18	24.91	1.24	0.24	0.11	77.21	53.58
ARITH. STD. DEV.	0.78	0.09	24.50	0.94	0.26	0.10	21.38	16.98
GEOM. MEAN	1.40	0.16	18.37	0.91	0.25	0.41	74.07	51.01
1ST QUARTILE	0.82	0.10	10.00	0.57	0.09	0.00	60.20	42.66
2ND QUARTILE	1.50	0.13	17.00	0.89	0.13	0.12	77.90	50.12
3RD QUARTILE	2.30	0.27	26.00	1.50	0.24	0.17	93.90	61.66
VOL. WGT. MEAN	1.48	0.16	23.26	0.98	0.27	0.19	72.91	50.48
MISSING VALUES	2	0	2	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: MERLIN MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	174.0	4784	45.50	5.24	4.70	0.98	0.86	0.45	0.900
MINIMUM	30.0	400	11.00	4.15	1.70	0.25	0.13	0.07	0.170
ARITH. MEAN	81.8	2003	28.20	4.38	3.18	0.52	0.35	0.20	0.425
ARITH. STD. DEV.	35.6	1067	9.84	0.29	0.93	0.19	0.22	0.10	0.189
GEOM. MEAN	74.9	1720	26.12	4.38	3.03	0.49	0.29	0.18	0.389
1ST QUARTILE	58.0	1468	17.00	4.17	2.30	0.37	0.15	0.12	0.300
2ND QUARTILE	77.7	1693	29.75	4.33	3.25	0.51	0.26	0.17	0.355
3RD QUARTILE	92.0	2414	32.50	4.40	3.60	0.57	0.48	0.23	0.450
VOL. WGT. MEAN		2440	26.03		3.06	0.48	0.31	0.19	0.393
MISSING VALUES	0	0	1	1	1	1	1	1	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.155	0.200	0.320	0.908	0.013	7.70	0.68	13.00	15.00
MINIMUM	0.025	0.015	0.000	0.128	0.002	0.95	0.00	2.30	7.50
ARITH. MEAN	0.068	0.066	0.082	0.374	0.006	2.81	0.23	6.02	9.90
ARITH. STD. DEV.	0.040	0.059	0.082	0.202	0.004	2.23	0.23	3.36	2.74
GEOM. MEAN	0.058	0.048	0.080	0.330	0.005	2.19	0.54	5.19	9.57
1ST QUARTILE	0.035	0.025	0.025	0.256	0.004	1.20	0.00	3.40	7.50
2ND QUARTILE	0.050	0.040	0.053	0.323	0.004	2.15	0.22	5.05	8.70
3RD QUARTILE	0.080	0.060	0.115	0.356	0.009	2.90	0.32	7.00	12.00
VOL. WGT. MEAN	0.061	0.068	0.088	0.339	0.006	2.31	0.41	5.87	9.89
MISSING VALUES	1	1	1	1	1	1	1	3	7

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	1.70	0.28	23.00	2.10	0.47	0.29	108.00	70.79
MINIMUM	0.54	0.06	5.20	0.19	0.00	0.00	13.80	5.75
ARITH. MEAN	1.16	0.14	14.58	0.68	0.17	0.10	73.17	47.81
ARITH. STD. DEV.	0.42	0.06	5.95	0.57	0.14	0.11	24.62	18.93
GEOM. MEAN	1.08	0.13	13.24	0.53	0.23	0.42	66.44	41.29
1ST QUARTILE	0.81	0.08	11.00	0.41	0.07	0.00	59.70	30.90
2ND QUARTILE	1.10	0.14	13.00	0.45	0.13	0.06	70.85	46.82
3RD QUARTILE	1.60	0.16	21.00	0.50	0.25	0.16	87.80	61.66
VOL. WGT. MEAN	1.15	0.14	13.22	0.68	0.21	0.18	71.74	46.72
MISSING VALUES	4	1	2	5	1	1	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: PORT STANLEY MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	213.0	3530	46.50	4.62	4.90	1.12	0.44	0.35	0.740
MINIMUM	55.0	1472	16.00	4.11	1.90	0.32	0.12	0.07	0.210
ARITH. MEAN	95.1	2093	31.24	4.27	3.00	0.56	0.24	0.18	0.398
ARITH. STD. DEV.	42.3	657	7.92	0.12	0.80	0.21	0.09	0.08	0.147
GEOM. MEAN	87.9	2005	30.21	4.27	2.89	0.53	0.23	0.16	0.374
1ST QUARTILE	63.0	1570	26.50	4.19	2.50	0.45	0.19	0.11	0.300
2ND QUARTILE	88.0	1805	29.50	4.27	2.95	0.49	0.21	0.18	0.330
3RD QUARTILE	103.0	2398	35.50	4.32	3.40	0.55	0.30	0.21	0.480
VOL. WGT. MEAN	.	2262	30.35	.	3.01	0.54	0.23	0.19	0.398
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.090	0.055	0.130	0.744	0.009	5.10	0.62	14.00	21.00
MINIMUM	0.015	0.015	0.000	0.168	0.000	1.20	0.00	4.30	6.13
ARITH. MEAN	0.045	0.028	0.061	0.360	0.004	2.42	0.22	6.48	9.47
ARITH. STD. DEV.	0.020	0.010	0.042	0.156	0.003	1.09	0.19	2.90	4.35
GEOM. MEAN	0.040	0.027	0.095	0.331	0.017	2.22	0.35	6.05	8.78
1ST QUARTILE	0.030	0.025	0.025	0.270	0.002	1.60	0.13	4.80	7.20
2ND QUARTILE	0.040	0.025	0.065	0.328	0.005	2.10	0.20	5.65	7.90
3RD QUARTILE	0.050	0.030	0.090	0.404	0.006	2.70	0.26	6.00	10.00
VOL. WGT. MEAN	0.042	0.026	0.066	0.353	0.006	2.25	0.30	6.45	9.01
MISSING VALUES	0	0	0	0	0	0	0	5	4

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	2.10	0.34	35.00	1.20	1.90	0.28	112.00	77.62
MINIMUM	0.64	0.07	7.70	0.41	0.00	0.00	52.00	23.99
ARITH. MEAN	1.34	0.17	16.89	0.78	0.26	0.12	82.62	55.29
ARITH. STD. DEV.	0.42	0.08	7.42	0.27	0.49	0.11	16.58	13.08
GEOM. MEAN	1.27	0.15	15.49	0.73	0.25	0.36	80.86	53.42
1ST QUARTILE	1.00	0.10	11.00	0.53	0.06	0.00	73.80	47.86
2ND QUARTILE	1.30	0.15	16.00	0.77	0.09	0.14	81.80	53.70
3RD QUARTILE	1.50	0.24	17.00	1.00	0.16	0.21	94.50	64.57
VOL. WGT. MEAN	1.34	0.16	15.67	0.75	0.39	0.18	81.95	54.42
MISSING VALUES	1	0	1	7	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: WILKESPORT MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	74.9	1410	31.00	4.41	2.45	0.64	0.41	0.35	0.470
MINIMUM	27.5	764	17.00	4.27	1.70	0.33	0.21	0.12	0.300
ARITH. MEAN	55.4	1031	24.67	4.34	2.13	0.50	0.31	0.25	0.367
ARITH. STD. DEV.	20.3	275	5.79	0.07	0.32	0.13	0.10	0.10	0.074
GEOM. MEAN	50.9	997	23.93	4.34	2.11	0.48	0.29	0.22	0.360
1ST QUARTILE	27.5	764	17.00	4.27	1.70	0.33	0.21	0.12	0.300
2ND QUARTILE	63.9	919	26.00	4.34	2.25	0.54	0.31	0.27	0.330
3RD QUARTILE	74.9	1410	31.00	4.41	2.45	0.64	0.41	0.35	0.470
VOL. WGT. MEAN		930	22.77		2.08	0.46	0.35	0.22	0.370
MISSING VALUES	0	0	0	1	0	0	1	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	0.055	0.080	0.165	0.378	0.010	3.80	0.55	14.00	52.00
MINIMUM	0.030	0.025	0.145	0.230	0.002	1.20	0.14	4.00	7.90
ARITH. MEAN	0.043	0.053	0.155	0.301	0.005	2.30	0.37	7.80	29.95
ARITH. STD. DEV.	0.013	0.028	0.010	0.061	0.004	1.10	0.17	4.42	22.05
GEOM. MEAN	0.041	0.045	0.155	0.295	0.004	2.05	0.32	6.71	20.27
1ST QUARTILE	0.030	0.025	0.145	0.230	0.002	1.20	0.14	4.00	7.90
2ND QUARTILE	0.043	0.053	0.155	0.294	0.003	1.90	0.42	5.40	29.95
3RD QUARTILE	0.055	0.080	0.165	0.378	0.010	3.80	0.55	14.00	52.00
VOL. WGT. MEAN	0.047	0.063	0.151	0.297	0.006	2.31	0.34	8.07	38.73
MISSING VALUES	1	1	1	0	0	0	0	0	1

FREEH+

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	2.30	0.32	38.00	3.30	0.12	0.30	80.30	53.70
MINIMUM	0.93	0.19	19.00	0.45	0.07	0.00	63.50	38.90
ARITH. MEAN	1.44	0.27	26.00	1.88	0.09	0.16	71.90	46.30
ARITH. STD. DEV.	0.61	0.06	8.52	1.43	0.02	0.12	8.40	7.40
GEOM. MEAN	1.33	0.26	24.75	1.22	0.09	0.37	71.41	45.71
1ST QUARTILE	0.93	0.19	19.00	0.45	0.07	0.00	63.50	38.90
2ND QUARTILE	1.10	0.29	21.00	1.88	0.09	0.17	71.90	46.30
3RD QUARTILE	2.30	0.32	38.00	3.30	0.12	0.30	80.30	53.70
VOL. WGT. MEAN	1.53	0.25	26.63	1.76	0.09	0.26	68.55	43.36
MISSING VALUES	0	0	0	1	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: ALVINSTON MIC TYPE A SITE NO.1

	# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
	3	68.8	2692	29.00	3	2.90	0.80	0.77	3	0.490
MAXIMUM					4.44				0.30	
MINIMUM		62.5	1662	16.00	4.42	1.45	0.31	0.08	0.07	0.220
ARITH. MEAN		65.0	2101	21.67	4.43	2.05	0.51	0.37	0.17	0.337
ARITH. STD. DEV.		2.7	434	5.44	0.01	0.62	0.21	0.29	0.10	0.113
GEOM. MEAN		64.9	2058	21.01	4.43	1.96	0.47	0.25	0.14	0.319
1ST QUARTILE		62.5	1662	16.00	4.42	1.45	0.31	0.08	0.07	0.220
2ND QUARTILE		63.6	1948	20.00	4.43	1.80	0.41	0.25	0.13	0.300
3RD QUARTILE		68.8	2692	29.00	4.44	2.90	0.80	0.77	0.30	0.490
VOL. WGT. MEAN			2093	21.65		2.05	0.51	0.37	0.17	0.336
MISSING VALUES		0	0	0	0	0	0	0	0	0

	# OF SAMPLES	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
	3	0.145	0.030	0.115	3	0.532	3	2.90	3	3
MAXIMUM					0.198		2.90	0.37	6.60	6.00
MINIMUM		0.015	0.010	0.035	0.326	0.002	0.57	0.13	2.70	6.00
ARITH. MEAN		0.065	0.022	0.080	0.147	0.005	1.82	0.23	5.23	6.00
ARITH. STD. DEV.		0.057	0.008	0.033	0.297	0.002	0.96	0.10	1.79	0.00
GEOM. MEAN		0.042	0.020	0.071	0.198	0.004	1.49	0.21	4.85	6.00
1ST QUARTILE		0.015	0.010	0.035	0.248	0.002	0.57	0.13	2.70	6.00
2ND QUARTILE		0.035	0.025	0.090	0.532	0.005	2.00	0.19	6.40	6.00
3RD QUARTILE		0.145	0.030	0.115	0.325	0.007	2.90	0.37	6.60	6.00
VOL. WGT. MEAN		0.064	0.022	0.081	0.325	0.005	1.84	0.23	5.28	6.00
MISSING VALUES		0	0	0	0	0	0	0	0	2

	# OF SAMPLES	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
	3	1.20	0.62	14.00	3	0.06	3	63.10	3
MAXIMUM					0.36		0.29	38.02	
MINIMUM		0.36	0.10	6.30	0.36	0.00	0.14	45.00	36.31
ARITH. MEAN		0.89	0.32	10.77	0.36	0.02	0.23	52.00	37.16
ARITH. STD. DEV.		0.37	0.22	3.26	0.00	0.03	0.06	7.94	0.70
GEOM. MEAN		0.78	0.24	10.19	0.36	0.39	0.22	51.43	37.15
1ST QUARTILE		0.36	0.10	6.30	0.36	0.00	0.14	45.00	36.31
2ND QUARTILE		1.10	0.23	12.00	0.36	0.00	0.25	47.90	37.15
3RD QUARTILE		1.20	0.62	14.00	0.36	0.06	0.29	63.10	38.02
VOL. WGT. MEAN		0.90	0.32	10.82	0.36	0.06	0.23	51.93	37.16
MISSING VALUES		0	0	0	2	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: SHALLOW LAKE MIC TYPE A SITE NO. 1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	147.0	4518	69.00	4.59	4.60	0.80	1.05	0.19	0.850
MINIMUM	28.1	706	10.00	4.14	1.15	0.27	0.07	0.07	0.190
ARITH. MEAN	85.5	2219	28.27	4.41	2.68	0.50	0.30	0.11	0.439
ARITH. STD. DEV.	36.2	1283	14.41	0.12	1.01	0.17	0.26	0.03	0.194
GEOM. MEAN	76.8	1836	25.34	4.41	2.49	0.47	0.22	0.11	0.402
1ST QUARTILE	71.7	884	19.50	4.33	1.85	0.39	0.12	0.09	0.300
2ND QUARTILE	75.0	2207	23.50	4.43	2.45	0.44	0.19	0.11	0.380
3RD QUARTILE	90.3	3029	30.50	4.53	3.05	0.50	0.33	0.14	0.460
VOL. WGT. MEAN	.	2683	26.21	.	2.64	0.47	0.26	0.11	0.424
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.245	0.295	0.090	0.786	0.045	51.00	100.00	211.40	85.33
MINIMUM	0.015	0.005	0.020	0.078	0.000	0.56	0.00	2.00	9.40
ARITH. MEAN	0.063	0.055	0.042	0.386	0.009	6.54	7.86	27.22	33.44
ARITH. STD. DEV.	0.060	0.075	0.020	0.185	0.013	13.15	26.60	62.03	28.87
GEOM. MEAN	0.045	0.031	0.038	0.334	0.013	2.37	0.52	6.32	23.03
1ST QUARTILE	0.030	0.020	0.030	0.294	0.003	0.78	0.13	3.10	9.60
2ND QUARTILE	0.040	0.020	0.035	0.354	0.003	2.10	0.22	3.50	17.00
3RD QUARTILE	0.070	0.040	0.050	0.488	0.006	3.60	0.32	6.00	68.99
VOL. WGT. MEAN	0.056	0.047	0.041	0.380	0.010	3.69	3.85	12.83	32.46
MISSING VALUES	0	0	0	0	0	0	0	3	6

FREEH+

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	51.00	50.00	99.00	51.06	100.00	100.00	108.00	72.44
MINIMUM	0.22	0.04	3.70	0.16	0.00	0.00	48.20	25.70
ARITH. MEAN	4.92	4.01	19.20	6.05	7.77	7.86	65.62	40.62
ARITH. STD. DEV.	13.90	13.28	25.75	15.91	26.62	26.60	15.93	12.62
GEOM. MEAN	0.89	0.23	11.21	0.66	0.30	0.42	63.97	38.90
1ST QUARTILE	0.29	0.12	6.10	0.27	0.06	0.14	55.60	29.51
2ND QUARTILE	0.68	0.18	7.00	0.45	0.09	0.18	59.30	37.15
3RD QUARTILE	1.10	0.21	22.00	0.65	0.14	0.29	72.30	46.77
VOL. WGT. MEAN	2.08	1.46	12.49	2.26	3.40	3.50	65.71	40.40
MISSING VALUES	1	0	1	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: PALMERSTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	123.0	3578	67.00	4.89	10.15	1.86	1.00	0.56	0.975
MINIMUM	34.0	96	17.00	4.24	2.45	0.34	0.00	0.07	0.070
ARITH. MEAN	72.6	1826	29.72	4.46	3.75	0.65	0.32	0.20	0.626
ARITH. STD. DEV.	26.5	1079	11.76	0.17	1.90	0.37	0.25	0.13	0.254
GEOM. MEAN	67.7	1377	28.09	4.45	3.48	0.59	0.31	0.17	0.537
1ST QUARTILE	50.0	1213	23.00	4.32	3.10	0.42	0.17	0.11	0.470
2ND QUARTILE	70.0	1525	26.00	4.45	3.25	0.58	0.24	0.15	0.580
3RD QUARTILE	92.2	2822	31.50	4.53	3.60	0.66	0.31	0.27	0.800
VOL. WGT. MEAN	.	2192	27.71	.	3.42	0.58	0.30	0.18	0.587
MISSING VALUES	0	0	0	0	0	0	0	0	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.220	0.155	0.420	3.160	0.120	8.30	1.10	22.00	13.00
MINIMUM	0.000	0.000	0.000	0.416	0.002	1.20	0.00	3.50	5.10
ARITH. MEAN	0.071	0.040	0.090	0.799	0.020	3.02	0.38	8.75	10.20
ARITH. STD. DEV.	0.058	0.036	0.110	0.696	0.031	1.94	0.28	4.69	2.75
GEOM. MEAN	0.078	0.047	0.102	0.666	0.010	2.56	0.37	7.82	9.75
1ST QUARTILE	0.040	0.025	0.025	0.472	0.003	1.70	0.20	6.40	7.50
2ND QUARTILE	0.050	0.030	0.040	0.560	0.010	2.30	0.36	8.00	11.00
3RD QUARTILE	0.075	0.035	0.120	0.808	0.021	3.10	0.39	9.20	13.00
VOL. WGT. MEAN	0.067	0.041	0.086	0.681	0.019	2.73	0.41	8.46	10.04
MISSING VALUES	0	0	0	0	1	0	0	2	6

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	4.30	0.61	33.00	4.50	1.50	0.32	89.10	57.54
MINIMUM	0.94	0.05	8.80	0.46	0.00	0.00	37.50	12.88
ARITH. MEAN	1.90	0.21	17.52	1.19	0.34	0.12	63.50	37.31
ARITH. STD. DEV.	1.00	0.14	7.84	1.26	0.48	0.10	14.72	12.23
GEOM. MEAN	1.69	0.17	15.95	0.88	0.23	0.29	61.71	34.92
1ST QUARTILE	1.10	0.09	10.00	0.54	0.10	0.00	55.80	29.51
2ND QUARTILE	1.55	0.19	15.00	0.73	0.14	0.13	62.90	35.48
3RD QUARTILE	2.00	0.26	20.00	0.90	0.17	0.17	74.60	47.86
VOL. WGT. MEAN	1.89	0.20	17.66	1.01	0.46	0.18	63.24	37.30
MISSING VALUES	1	0	1	5	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: DOGS NEST EAST MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	107.6	2392	47.00	4.60	4.55	0.99	0.49	0.31	0.980
MINIMUM	65.4	1069	24.00	4.09	3.70	0.42	0.36	0.13	0.830
ARITH. MEAN	80.8	1796	34.33	4.33	4.12	0.67	0.43	0.20	0.900
ARITH. STD. DEV.	19.0	548	9.53	0.21	0.35	0.24	0.05	0.08	0.062
GEOM. MEAN	78.7	1702	33.05	4.33	4.10	0.63	0.42	0.19	0.898
1ST QUARTILE	65.4	1069	24.00	4.09	3.70	0.42	0.36	0.13	0.830
2ND QUARTILE	69.3	1928	32.00	4.31	4.10	0.61	0.43	0.16	0.890
3RD QUARTILE	107.6	2392	47.00	4.60	4.55	0.99	0.49	0.31	0.980
VOL. WGT. MEAN		1679	32.50		4.04	0.63	0.44	0.19	0.888
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	0.100	0.060	0.055	0.932	0.024	9.10	0.26	9.50	5.67
MINIMUM	0.075	0.020	0.040	0.698	0.004	3.50	0.00	5.50	5.67
ARITH. MEAN	0.087	0.040	0.045	0.793	0.014	6.13	0.09	7.50	5.67
ARITH. STD. DEV.	0.010	0.016	0.007	0.101	0.008	2.30	0.12	2.00	0.00
GEOM. MEAN	0.086	0.036	0.044	0.787	0.011	5.70	0.64	7.23	5.67
1ST QUARTILE	0.075	0.020	0.040	0.698	0.004	3.50	0.00	5.50	5.67
2ND QUARTILE	0.085	0.040	0.040	0.748	0.014	5.80	0.00	7.50	5.67
3RD QUARTILE	0.100	0.060	0.055	0.932	0.024	9.10	0.26	9.50	5.67
VOL. WGT. MEAN	0.087	0.043	0.047	0.775	0.016	6.64	0.26	7.01	5.67
MISSING VALUES	0	0	0	0	0	0	0	1	2

FREEH+

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	2.90	0.49	23.00	0.64	0.00	0.25	96.20	81.28
MINIMUM	0.49	0.16	17.00	0.36	0.00	0.00	57.50	25.12
ARITH. MEAN	1.60	0.34	19.00	0.49	0.00	0.08	73.10	51.79
ARITH. STD. DEV.	0.99	0.14	2.83	0.12	0.00	0.12	16.67	23.02
GEOM. MEAN	1.26	0.31	18.80	0.47	1.00	0.63	71.33	46.42
1ST QUARTILE	0.49	0.16	17.00	0.36	0.00	0.00	57.50	25.12
2ND QUARTILE	1.40	0.38	17.00	0.46	0.00	0.00	65.60	48.98
3RD QUARTILE	2.90	0.49	23.00	0.64	0.00	0.25	96.20	81.28
VOL. WGT. MEAN	1.40	0.31	18.72	0.48	0.00	0.25	70.26	47.10
MISSING VALUES	0	0	0	0	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: NORTH DUFFERIN MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	2	2	2	2	2	2	2	2	2
MAXIMUM	86.1	1925	37.00	4.47	6.20	0.84	1.50	0.29	0.975
MINIMUM	62.8	540	35.00	4.29	3.85	0.79	0.73	0.18	0.520
ARITH. MEAN	74.4	1233	36.00	4.38	5.03	0.81	1.12	0.24	0.748
ARITH. STD. DEV.	11.7	693	1.00	0.09	1.18	0.02	0.39	0.05	0.228
GEOM. MEAN	73.5	1020	35.99	4.38	4.89	0.81	1.05	0.23	0.712
1ST QUARTILE	62.8	540	35.00	4.29	3.85	0.79	0.73	0.18	0.520
2ND QUARTILE	74.4	1233	36.00	4.38	5.03	0.81	1.12	0.24	0.748
3RD QUARTILE	86.1	1925	37.00	4.47	6.20	0.84	1.50	0.29	0.975
VOL. WGT. MEAN	.	1124	36.16	.	5.21	0.82	1.18	0.24	0.783
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	2	2	2	2	2	2	2	2	2
MAXIMUM	0.400	0.145	0.075	0.698	0.093	21.00	1.80	15.00	8.80
MINIMUM	0.190	0.025	0.065	0.474	0.002	3.90	0.99	10.00	8.80
ARITH. MEAN	0.295	0.085	0.070	0.586	0.048	12.45	1.40	12.50	8.80
ARITH. STD. DEV.	0.105	0.060	0.005	0.112	0.046	8.55	0.41	2.50	0.00
GEOM. MEAN	0.276	0.060	0.070	0.575	0.014	9.05	1.33	12.25	8.80
1ST QUARTILE	0.190	0.025	0.065	0.474	0.002	3.90	0.99	10.00	8.80
2ND QUARTILE	0.295	0.085	0.070	0.586	0.048	12.45	1.40	12.50	8.80
3RD QUARTILE	0.400	0.145	0.075	0.698	0.093	21.00	1.80	15.00	8.80
VOL. WGT. MEAN	0.311	0.094	0.071	0.604	0.055	13.79	1.46	12.89	8.80
MISSING VALUES	0	0	0	0	0	0	0	0	1

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	2	2	2	2	2	2	2	2
MAXIMUM	3.10	0.26	51.00	2.30	0.39	0.11	67.80	51.29
MINIMUM	0.93	0.25	18.00	1.70	0.23	0.00	63.10	33.88
ARITH. MEAN	2.02	0.26	34.50	2.00	0.31	0.06	65.45	42.59
ARITH. STD. DEV.	1.09	0.01	16.50	0.30	0.08	0.06	2.35	8.70
GEOM. MEAN	1.70	0.25	30.30	1.98	0.30	0.33	65.41	41.69
1ST QUARTILE	0.93	0.25	18.00	1.70	0.23	0.00	63.10	33.88
2ND QUARTILE	2.02	0.26	34.50	2.00	0.31	0.06	65.45	42.59
3RD QUARTILE	3.10	0.26	51.00	2.30	0.39	0.11	67.80	51.29
VOL. WGT. MEAN	1.85	0.26	37.08	1.95	0.30	0.11	65.08	41.22
MISSING VALUES	0	0	0	0	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: HURON PARK MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	133.1	3961	43.00	4.74	4.60	0.90	1.00	0.24	0.880
MINIMUM	45.8	687	18.00	4.15	1.80	0.40	0.15	0.06	0.240
ARITH. MEAN	82.1	2080	29.28	4.42	3.25	0.57	0.37	0.13	0.545
ARITH. STD. DEV.	26.6	972	7.89	0.19	0.80	0.16	0.23	0.06	0.167
GEOM. MEAN	77.7	1838	28.23	4.41	3.14	0.54	0.32	0.12	0.517
1ST QUARTILE	59.7	1292	22.00	4.27	2.60	0.45	0.24	0.08	0.410
2ND QUARTILE	79.3	1979	29.65	4.38	3.38	0.50	0.27	0.12	0.545
3RD QUARTILE	95.0	2686	33.00	4.60	3.65	0.70	0.40	0.16	0.630
VOL. WGT. MEAN	.	2384	29.33	.	3.26	0.54	0.32	0.12	0.535
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	0.140	0.050	0.125	0.860	0.014	6.80	4.10	34.00	28.00
MINIMUM	0.025	0.015	0.000	0.278	0.000	0.97	0.00	13.00	4.50
ARITH. MEAN	0.062	0.027	0.052	0.507	0.005	3.24	0.81	27.00	11.72
ARITH. STD. DEV.	0.031	0.011	0.042	0.141	0.005	2.02	1.24	9.90	8.36
GEOM. MEAN	0.055	0.025	0.060	0.489	0.015	2.68	0.78	24.68	9.57
1ST QUARTILE	0.040	0.020	0.015	0.452	0.002	2.00	0.00	13.00	6.90
2ND QUARTILE	0.053	0.023	0.035	0.493	0.004	2.80	0.28	34.00	9.40
3RD QUARTILE	0.070	0.030	0.100	0.544	0.006	3.40	0.88	34.00	9.82
VOL. WGT. MEAN	0.055	0.025	0.051	0.504	0.006	3.06	1.40	27.74	11.09
MISSING VALUES	0	0	0	0	0	1	1	7	5

FREEH+

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
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# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	2.40	0.67	25.00	2.70	10.00	0.40	105.00	70.79
MINIMUM	0.10	0.00	4.50	0.53	0.00	0.00	38.80	18.20
ARITH. MEAN	1.37	0.22	13.04	1.41	1.21	0.07	68.87	41.68
ARITH. STD. DEV.	0.82	0.20	5.91	0.93	3.11	0.13	20.35	16.44
GEOM. MEAN	0.93	0.21	11.69	1.13	0.34	0.75	65.73	38.19
1ST QUARTILE	0.59	0.06	9.80	0.53	0.09	0.00	56.30	25.12
2ND QUARTILE	1.45	0.15	12.00	1.00	0.14	0.00	67.90	42.24
3RD QUARTILE	2.20	0.28	15.00	2.70	0.16	0.00	83.20	53.70
VOL. WGT. MEAN	1.38	0.21	11.77	1.08	2.39	0.27	69.58	42.59
MISSING VALUES	4	1	3	7	1	1	0	0

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STATION: WATERLOO MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
MAXIMUM	78.3	1936	30.00	4.39	4.25	0.72	0.47	1.00	0.510
MINIMUM	69.7	1428	24.00	4.30	2.05	0.50	0.13	0.13	0.340
ARITH. MEAN	75.0	1701	26.67	4.35	2.93	0.60	0.30	0.46	0.425
ARITH. STD. DEV.	3.8	209	2.49	0.04	0.95	0.09	0.17	0.39	0.085
GEOM. MEAN	74.9	1688	26.55	4.34	2.79	0.59	0.25	0.31	0.416
1ST QUARTILE	69.7	1428	24.00	4.30	2.05	0.50	0.13	0.13	0.340
2ND QUARTILE	77.1	1739	26.00	4.35	2.50	0.58	0.30	0.24	0.425
3RD QUARTILE	78.3	1936	30.00	4.39	4.25	0.72	0.47	1.00	0.510
VOL. WGT. MEAN	.	1701	26.77	.	2.97	0.60	0.31	0.47	0.429
MISSING VALUES	0	0	0	1	0	0	1	0	1

# OF SAMPLES	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
MAXIMUM	0.050	0.030	0.125	0.420	0.070	14.00	8.10	135.32	128.63
MINIMUM	0.030	0.000	0.075	0.222	0.003	1.10	0.17	2.60	6.30
ARITH. MEAN	0.040	0.015	0.100	0.304	0.028	6.57	2.87	48.34	67.47
ARITH. STD. DEV.	0.010	0.015	0.025	0.084	0.030	5.45	3.70	61.53	61.16
GEOM. MEAN	0.039	0.173	0.097	0.293	0.014	4.14	0.78	13.57	28.47
1ST QUARTILE	0.030	0.000	0.075	0.222	0.003	1.10	0.17	2.60	6.30
2ND QUARTILE	0.040	0.015	0.100	0.270	0.012	4.60	0.34	7.10	67.47
3RD QUARTILE	0.050	0.030	0.125	0.420	0.070	14.00	8.10	135.32	128.63
VOL. WGT. MEAN	0.041	0.030	0.101	0.305	0.029	6.79	2.99	50.31	71.02
MISSING VALUES	1	1	1	0	0	0	0	0	1

# OF SAMPLES	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
MAXIMUM	12.00	0.90	100.00	16.00	1.80	0.69	66.30	50.12
MINIMUM	1.10	0.16	8.10	0.67	0.00	0.00	58.00	40.74
ARITH. MEAN	6.55	0.49	41.37	8.34	0.62	0.34	62.15	45.43
ARITH. STD. DEV.	5.45	0.31	41.59	7.67	0.83	0.28	4.15	4.69
GEOM. MEAN	3.63	0.39	23.49	3.27	0.48	0.61	62.01	45.19
1ST QUARTILE	1.10	0.16	8.10	0.67	0.00	0.00	58.00	40.74
2ND QUARTILE	6.55	0.40	16.00	8.34	0.06	0.33	62.15	45.43
3RD QUARTILE	12.00	0.90	100.00	16.00	1.80	0.69	66.30	50.12
VOL. WGT. MEAN	6.87	0.50	42.77	8.39	0.98	0.51	61.94	45.19
MISSING VALUES	1	0	0	1	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: DORSET MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	139.0	4095	34.00	5.21	4.85	0.96	0.85	0.26	0.820
MINIMUM	3.0	109	10.50	4.16	1.00	0.19	0.05	0.05	0.030
ARITH. MEAN	71.5	2128	24.71	4.40	2.57	0.53	0.27	0.11	0.362
ARITH. STD. DEV.	37.1	1059	6.59	0.25	1.06	0.19	0.23	0.06	0.195
GEOM. MEAN	55.3	1693	23.63	4.40	2.35	0.50	0.19	0.10	0.291
1ST QUARTILE	48.0	1570	21.50	4.29	1.85	0.45	0.11	0.07	0.280
2ND QUARTILE	60.0	1871	25.00	4.37	2.30	0.54	0.14	0.09	0.330
3RD QUARTILE	99.0	2814	28.50	4.38	3.20	0.58	0.39	0.12	0.390
VOL. WGT. MEAN	.	2663	24.22	.	2.25	0.49	0.19	0.10	0.318
MISSING VALUES	0	0	1	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.125	0.755	0.120	0.692	0.103	7.30	0.64	74.00	170.43
MINIMUM	0.000	0.000	0.000	0.064	0.000	0.63	0.00	1.90	6.40
ARITH. MEAN	0.047	0.088	0.040	0.357	0.012	2.72	0.18	11.47	57.62
ARITH. STD. DEV.	0.039	0.196	0.031	0.164	0.027	2.11	0.19	20.93	66.52
GEOM. MEAN	0.047	0.043	0.045	0.309	0.018	2.05	0.47	5.46	25.95
1ST QUARTILE	0.015	0.015	0.020	0.294	0.002	1.20	0.00	3.30	11.00
2ND QUARTILE	0.025	0.020	0.035	0.314	0.002	1.60	0.15	4.00	14.00
3RD QUARTILE	0.070	0.035	0.045	0.492	0.004	3.30	0.30	7.20	129.87
VOL. WGT. MEAN	0.035	0.050	0.034	0.319	0.009	2.17	0.27	8.51	41.30
MISSING VALUES	0	0	0	0	0	1	1	3	7

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	1.50	0.32	26.00	2.00	0.95	0.32	112.00	69.18
MINIMUM	0.03	0.00	3.10	0.62	0.00	0.00	16.60	6.17
ARITH. MEAN	0.81	0.14	8.71	1.15	0.13	0.14	68.62	43.67
ARITH. STD. DEV.	0.46	0.09	5.76	0.49	0.25	0.11	21.88	13.89
GEOM. MEAN	0.57	0.15	7.45	1.06	0.32	0.34	63.41	39.39
1ST QUARTILE	0.55	0.07	4.70	0.77	0.00	0.00	62.80	41.69
2ND QUARTILE	0.60	0.15	6.65	0.92	0.07	0.16	73.10	42.66
3RD QUARTILE	1.20	0.19	10.00	1.80	0.10	0.17	76.00	51.29
VOL. WGT. MEAN	0.81	0.17	7.61	0.99	0.22	0.20	67.30	43.20
MISSING VALUES	4	1	1	6	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: UXBRIDGE MIC TYPE A SITE NO.1

		EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	:	3	3	3	3	3	3	3	3	3
MAXIMUM	:	73.6	2197	32.00	4.57	2.15	0.74	0.39	0.43	0.450
MINIMUM	:	59.0	1125	20.00	4.25	1.85	0.37	0.22	0.20	0.270
ARITH. MEAN	:	65.2	1587	24.17	4.41	1.98	0.53	0.30	0.28	0.363
ARITH. STD. DEV.	:	6.2	450	5.54	0.13	0.12	0.15	0.07	0.10	0.074
GEOM. MEAN	:	64.9	1527	23.59	4.40	1.98	0.51	0.30	0.27	0.356
1ST QUARTILE	:	59.0	1125	20.00	4.25	1.85	0.37	0.22	0.20	0.270
2ND QUARTILE	:	63.0	1440	20.50	4.40	1.95	0.49	0.30	0.22	0.370
3RD QUARTILE	:	73.6	2197	32.00	4.57	2.15	0.74	0.39	0.43	0.450
VOL. WGT. MEAN	:	.	1630	23.78	.	1.97	0.52	0.30	0.28	0.358
MISSING VALUES	:	0	0	0	0	0	0	0	0	0

		MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	:	3	3	3	3	3	3	3	3	3
MAXIMUM	:	0.035	0.035	0.230	0.368	0.007	3.10	0.41	4.50	26.00
MINIMUM	:	0.020	0.020	0.130	0.192	0.003	0.97	0.00	3.40	6.78
ARITH. MEAN	:	0.027	0.025	0.168	0.295	0.005	2.32	0.20	4.03	16.39
ARITH. STD. DEV.	:	0.006	0.007	0.044	0.075	0.002	0.96	0.17	0.46	9.61
GEOM. MEAN	:	0.026	0.024	0.163	0.284	0.005	2.06	0.43	4.01	13.27
1ST QUARTILE	:	0.020	0.020	0.130	0.192	0.003	0.97	0.00	3.40	6.78
2ND QUARTILE	:	0.025	0.020	0.145	0.324	0.006	2.90	0.20	4.20	16.39
3RD QUARTILE	:	0.035	0.035	0.230	0.368	0.007	3.10	0.41	4.50	26.00
VOL. WGT. MEAN	:	0.026	0.026	0.166	0.289	0.005	2.24	0.29	4.06	16.07
MISSING VALUES	:	0	0	0	0	0	0	0	0	1

		LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	:	3	3	3	3	3	3	3	3
MAXIMUM	:	1.80	0.31	15.00	0.76	0.15	0.34	85.00	56.23
MINIMUM	:	1.10	0.12	5.20	0.74	0.06	0.00	39.70	26.92
ARITH. MEAN	:	1.45	0.23	9.57	0.75	0.12	0.17	57.27	40.99
ARITH. STD. DEV.	:	0.35	0.08	4.07	0.01	0.04	0.14	19.84	12.00
GEOM. MEAN	:	1.41	0.21	8.72	0.75	0.11	0.38	54.17	39.20
1ST QUARTILE	:	1.10	0.12	5.20	0.74	0.06	0.00	39.70	26.92
2ND QUARTILE	:	1.45	0.25	8.50	0.75	0.14	0.16	47.10	39.81
3RD QUARTILE	:	1.80	0.31	15.00	0.76	0.15	0.34	85.00	56.23
VOL. WGT. MEAN	:	1.49	0.22	9.22	0.75	0.12	0.24	56.15	40.61
MISSING VALUES	:	1	0	0	1	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: WILBERFORCE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	92.0	2354	26.00	4.29	2.05	0.65	0.35	0.15	0.400
MINIMUM	60.0	1464	26.00	4.29	2.05	0.65	0.35	0.15	0.400
ARITH. MEAN	73.3	1766	26.00	4.29	2.05	0.65	0.35	0.15	0.400
ARITH. STD. DEV.	13.6	416	0.00	0.00	0.00	0.00	0.00	0.00	0.000
GEOM. MEAN	72.1	1722	26.00	4.29	2.05	0.65	0.35	0.15	0.400
1ST QUARTILE	60.0	1464	26.00	4.29	2.05	0.65	0.35	0.15	0.400
2ND QUARTILE	68.0	1481	26.00	4.29	2.05	0.65	0.35	0.15	0.400
3RD QUARTILE	92.0	2354	26.00	4.29	2.05	0.65	0.35	0.15	0.400
VOL. WGT. MEAN	.	1841	26.00	.	2.05	0.65	0.35	0.15	0.400
MISSING VALUES	0	0	2	2	2	2	2	2	2

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	0.030	0.025	0.080	0.320	0.005	3.20	0.31	5.50	6.73
MINIMUM	0.030	0.025	0.080	0.320	0.005	3.20	0.31	5.50	6.73
ARITH. MEAN	0.030	0.025	0.080	0.320	0.005	3.20	0.31	5.50	6.73
ARITH. STD. DEV.	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00
GEOM. MEAN	0.030	0.025	0.080	0.320	0.005	3.20	0.31	5.50	6.73
1ST QUARTILE	0.030	0.025	0.080	0.320	0.005	3.20	0.31	5.50	6.73
2ND QUARTILE	0.030	0.025	0.080	0.320	0.005	3.20	0.31	5.50	6.73
3RD QUARTILE	0.030	0.025	0.080	0.320	0.005	3.20	0.31	5.50	6.73
VOL. WGT. MEAN	0.030	0.025	0.080	0.320	0.005	3.20	0.31	5.50	6.73
MISSING VALUES	2	2	2	2	2	2	2	2	2

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	1.60	0.24	17.00	1.60	0.12	0.00	60.80	51.29
MINIMUM	1.60	0.24	17.00	1.60	0.12	0.00	60.80	51.29
ARITH. MEAN	1.60	0.24	17.00	1.60	0.12	0.00	60.80	51.29
ARITH. STD. DEV.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GEOM. MEAN	1.60	0.24	17.00	1.60	0.12	1.00	60.80	51.29
1ST QUARTILE	1.60	0.24	17.00	1.60	0.12	0.00	60.80	51.29
2ND QUARTILE	1.60	0.24	17.00	1.60	0.12	0.00	60.80	51.29
3RD QUARTILE	1.60	0.24	17.00	1.60	0.12	0.00	60.80	51.29
VOL. WGT. MEAN	1.60	0.24	17.00	1.60	0.12	0.00	60.80	51.29
MISSING VALUES	2	2	2	2	2	2	2	2

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: CAMPBELLFORD MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	11	11	11	11	11	11	11	11	11
MAXIMUM	114.0	2953	64.00	7.56	6.00	0.99	4.84	0.37	3.300
MINIMUM	31.0	0	14.00	3.91	1.35	0.22	0.06	0.04	0.130
ARITH. MEAN	66.0	1345	34.39	4.60	3.35	0.60	0.71	0.15	0.718
ARITH. STD. DEV.	29.1	900	15.42	1.06	1.50	0.24	1.47	0.10	0.927
GEOM. MEAN	59.1	396	31.10	4.50	3.04	0.54	0.23	0.12	0.455
1ST QUARTILE	33.0	783	25.50	4.16	2.25	0.43	0.10	0.09	0.280
2ND QUARTILE	65.0	1303	29.00	4.19	3.00	0.52	0.16	0.17	0.400
3RD QUARTILE	96.0	2237	39.00	4.41	3.70	0.74	0.29	0.18	0.480
VOL. WGT. MEAN	.	1880	32.53	.	3.11	0.57	0.68	0.14	0.672
MISSING VALUES	0	0	2	2	2	2	2	2	2

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	11	11	11	11	11	11	11	11	11
MAXIMUM	0.160	0.645	0.270	4.050	0.420	5.50	4.20	122.55	77.00
MINIMUM	0.000	0.010	0.000	0.122	0.000	0.33	0.00	2.90	4.30
ARITH. MEAN	0.043	0.092	0.072	0.758	0.049	1.92	0.81	23.25	28.47
ARITH. STD. DEV.	0.047	0.196	0.077	1.175	0.131	1.46	1.24	40.69	25.35
GEOM. MEAN	0.050	0.031	0.077	0.409	0.021	1.45	0.52	8.94	18.34
1ST QUARTILE	0.015	0.020	0.025	0.256	0.002	0.97	0.25	3.00	7.50
2ND QUARTILE	0.030	0.020	0.035	0.312	0.004	1.50	0.38	6.80	18.50
3RD QUARTILE	0.030	0.035	0.100	0.482	0.006	2.30	0.43	14.00	45.00
VOL. WGT. MEAN	0.048	0.090	0.075	0.721	0.065	1.56	0.70	16.19	26.16
MISSING VALUES	2	2	2	2	2	2	2	4	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	11	11	11	11	11	11	11	11
MAXIMUM	3.30	0.40	42.00	1.80	45.00	0.24	138.00	123.03
MINIMUM	0.50	0.11	3.00	0.31	0.00	0.00	10.70	0.03
ARITH. MEAN	1.45	0.19	14.04	0.84	5.07	0.11	78.69	57.14
ARITH. STD. DEV.	0.91	0.10	10.60	0.51	14.12	0.09	33.89	31.96
GEOM. MEAN	1.18	0.17	11.26	0.71	0.61	0.29	66.59	25.38
1ST QUARTILE	0.51	0.13	9.10	0.57	0.00	0.00	60.10	38.90
2ND QUARTILE	1.34	0.14	10.00	0.65	0.07	0.12	86.60	64.57
3RD QUARTILE	1.90	0.17	13.00	0.87	0.15	0.19	100.00	69.18
VOL. WGT. MEAN	1.20	0.20	11.23	0.81	5.76	0.16	75.74	54.15
MISSING VALUES	3	2	2	6	2	2	2	2

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: COLDWATER MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	107.0	3104	53.00	4.94	5.10	0.65	0.47	0.20	0.940
MINIMUM	34.0	1062	14.00	4.04	1.20	0.24	0.07	0.02	0.020
ARITH. MEAN	68.9	1938	25.36	4.47	2.65	0.47	0.24	0.12	0.411
ARITH. STD. DEV.	22.9	671	10.76	0.23	1.04	0.14	0.12	0.05	0.222
GEOM. MEAN	64.9	1824	23.51	4.47	2.46	0.45	0.20	0.10	0.314
1ST QUARTILE	51.0	1295	16.80	4.25	1.90	0.34	0.13	0.07	0.310
2ND QUARTILE	68.0	1796	21.75	4.48	2.23	0.48	0.21	0.12	0.405
3RD QUARTILE	82.0	2271	26.00	4.60	3.20	0.62	0.28	0.15	0.480
VOL. WGT. MEAN	.	2155	24.31	.	2.55	0.46	0.23	0.12	0.426
MISSING VALUES	0	0	1	1	1	1	1	1	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.080	0.045	0.075	0.812	0.037	3.60	0.36	6.40	16.00
MINIMUM	0.010	0.020	0.000	0.074	0.002	0.61	0.00	2.20	4.90
ARITH. MEAN	0.036	0.030	0.031	0.429	0.008	2.09	0.16	3.86	10.25
ARITH. STD. DEV.	0.019	0.009	0.021	0.198	0.009	0.87	0.13	1.42	4.82
GEOM. MEAN	0.031	0.029	0.039	0.373	0.005	1.89	0.39	3.62	9.05
1ST QUARTILE	0.015	0.020	0.015	0.286	0.003	1.30	0.00	2.40	4.90
2ND QUARTILE	0.033	0.030	0.030	0.413	0.005	2.00	0.17	3.55	10.06
3RD QUARTILE	0.050	0.035	0.035	0.472	0.008	3.00	0.30	4.20	14.00
VOL. WGT. MEAN	0.036	0.029	0.033	0.422	0.008	2.09	0.24	3.66	9.67
MISSING VALUES	1	1	1	1	1	2	2	5	9

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	1.80	0.28	12.00	1.70	0.19	0.50	919.00	91.20
MINIMUM	0.31	0.00	5.10	0.15	0.00	0.00	35.70	11.48
ARITH. MEAN	1.04	0.13	8.62	0.72	0.10	0.18	135.22	38.62
ARITH. STD. DEV.	0.53	0.07	2.52	0.45	0.05	0.18	237.76	20.79
GEOM. MEAN	0.88	0.16	8.23	0.58	0.13	0.40	74.32	33.75
1ST QUARTILE	0.41	0.07	6.10	0.34	0.07	0.00	41.50	25.12
2ND QUARTILE	1.18	0.13	9.00	0.60	0.10	0.11	57.85	33.55
3RD QUARTILE	1.40	0.18	11.00	0.68	0.13	0.37	84.10	42.66
VOL. WGT. MEAN	1.03	0.14	8.23	0.69	0.10	0.26	171.58	36.94
MISSING VALUES	5	2	3	5	2	2	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: TORONTO ISLAND MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	92.0	2684	72.00	4.50	7.20	1.21	0.73	0.90	0.930
MINIMUM	34.0	82	23.00	3.93	1.85	0.41	0.15	0.06	0.170
ARITH. MEAN	62.2	1500	41.50	4.16	4.04	0.72	0.35	0.27	0.543
ARITH. STD. DEV.	16.9	697	14.48	0.16	1.57	0.26	0.16	0.21	0.214
GEOM. MEAN	59.8	1214	39.15	4.16	3.75	0.67	0.32	0.22	0.494
1ST QUARTILE	54.0	1100	26.50	4.02	3.05	0.43	0.19	0.15	0.410
2ND QUARTILE	60.0	1381	38.00	4.13	3.43	0.65	0.34	0.23	0.540
3RD QUARTILE	68.0	1733	47.00	4.25	4.60	0.72	0.41	0.30	0.660
VOL. WGT. MEAN		1606	39.28		3.84	0.68	0.33	0.25	0.518
MISSING VALUES	0	0	1	1	1	1	1	1	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.140	0.080	0.405	0.890	0.039	8.30	1.10	18.00	121.75
MINIMUM	0.025	0.020	0.010	0.180	0.000	1.10	0.00	1.90	7.70
ARITH. MEAN	0.066	0.035	0.088	0.479	0.009	3.42	0.50	8.04	31.81
ARITH. STD. DEV.	0.030	0.017	0.105	0.199	0.010	1.97	0.35	3.81	36.46
GEOM. MEAN	0.060	0.032	0.054	0.438	0.016	2.89	0.58	7.13	20.20
1ST QUARTILE	0.040	0.020	0.020	0.366	0.002	1.70	0.31	6.10	11.00
2ND QUARTILE	0.058	0.028	0.053	0.412	0.006	3.20	0.38	7.50	14.00
3RD QUARTILE	0.080	0.040	0.070	0.592	0.014	4.50	0.70	9.70	22.00
VOL. WGT. MEAN	0.063	0.035	0.078	0.456	0.011	3.20	0.57	7.74	32.32
MISSING VALUES	1	1	1	0	0	0	0	2	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	4.60	0.87	56.00	3.30	0.32	0.39	157.00	117.49
MINIMUM	0.03	0.00	6.30	0.24	0.00	0.00	67.90	31.62
ARITH. MEAN	2.14	0.26	20.08	1.72	0.12	0.17	101.65	73.77
ARITH. STD. DEV.	1.34	0.20	13.48	1.00	0.08	0.13	28.04	25.54
GEOM. MEAN	1.27	0.27	16.44	1.32	0.18	0.37	98.18	69.05
1ST QUARTILE	1.30	0.15	8.80	0.71	0.07	0.00	75.10	50.12
2ND QUARTILE	1.90	0.27	18.00	1.75	0.14	0.20	97.25	74.21
3RD QUARTILE	3.20	0.29	26.00	2.40	0.15	0.26	105.00	81.28
VOL. WGT. MEAN	2.00	0.27	19.22	1.64	0.15	0.25	97.17	70.35
MISSING VALUES	0	0	0	3	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: SMITHS FALLS MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	112.0	2789	60.00	6.69	11.10	1.34	2.30	1.19	1.900
MINIMUM	31.0	0	15.50	4.01	1.10	0.22	0.05	0.03	0.110
ARITH. MEAN	59.1	1266	30.77	4.55	3.67	0.61	0.43	0.26	0.504
ARITH. STD. DEV.	23.3	909	12.94	0.71	2.64	0.32	0.64	0.33	0.487
GEOM. MEAN	54.8	611	28.32	4.50	2.97	0.53	0.23	0.15	0.368
1ST QUARTILE	41.0	567	21.50	4.14	1.45	0.32	0.12	0.08	0.280
2ND QUARTILE	49.0	1159	26.00	4.31	3.30	0.57	0.23	0.11	0.390
3RD QUARTILE	75.0	1954	40.00	4.53	4.35	0.77	0.44	0.34	0.510
VOL. WGT. MEAN	.	1636	29.85	.	3.41	0.58	0.38	0.26	0.461
MISSING VALUES	0	0	2	2	2	2	3	2	3

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.745	0.195	0.320	1.780	0.126	17.00	0.55	15.00	47.55
MINIMUM	0.010	0.005	0.015	0.106	0.000	0.48	0.00	2.00	11.05
ARITH. MEAN	0.118	0.050	0.085	0.549	0.028	4.58	0.31	7.83	26.12
ARITH. STD. DEV.	0.211	0.068	0.092	0.466	0.047	4.98	0.18	4.00	12.63
GEOM. MEAN	0.050	0.023	0.051	0.395	0.197	2.68	0.44	6.71	23.19
1ST QUARTILE	0.025	0.010	0.020	0.242	0.000	1.50	0.18	5.80	19.00
2ND QUARTILE	0.048	0.020	0.045	0.436	0.000	1.80	0.36	6.90	21.00
3RD QUARTILE	0.090	0.030	0.145	0.804	0.059	6.10	0.44	12.00	32.00
VOL. WGT. MEAN	0.101	0.041	0.071	0.493	0.057	3.86	0.38	7.60	23.70
MISSING VALUES	3	3	3	2	2	3	3	6	8

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	2.80	0.63	44.00	3.40	2.40	0.96	116.00	97.72
MINIMUM	0.53	0.11	3.70	0.99	0.00	0.00	20.30	0.20
ARITH. MEAN	1.70	0.28	17.61	1.80	0.49	0.26	70.98	47.59
ARITH. STD. DEV.	0.74	0.15	12.75	0.95	0.73	0.30	28.84	26.85
GEOM. MEAN	1.50	0.25	13.49	1.59	0.38	0.51	63.96	28.18
1ST QUARTILE	0.95	0.17	8.50	0.99	0.08	0.00	49.30	29.51
2ND QUARTILE	1.80	0.26	14.00	1.40	0.15	0.12	74.00	48.98
3RD QUARTILE	2.10	0.37	20.00	1.60	0.44	0.48	101.00	72.44
VOL. WGT. MEAN	1.59	0.28	15.76	2.02	0.57	0.39	69.94	46.77
MISSING VALUES	5	3	3	9	3	3	2	2

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: GOLDEN LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	98.0	2994	28.00	4.73	3.30	0.61	0.40	0.15	0.920
MINIMUM	24.0	0	14.50	4.32	0.90	0.30	0.06	0.04	0.110
ARITH. MEAN	59.1	1403	22.45	4.46	2.42	0.40	0.16	0.09	0.427
ARITH. STD. DEV.	20.0	946	4.52	0.14	0.66	0.09	0.10	0.03	0.258
GEOM. MEAN	55.5	309	21.93	4.46	2.30	0.39	0.13	0.08	0.349
1ST QUARTILE	46.0	1061	19.00	4.36	2.05	0.34	0.10	0.06	0.220
2ND QUARTILE	62.0	1479	24.25	4.42	2.55	0.36	0.12	0.08	0.365
3RD QUARTILE	73.0	1937	26.00	4.50	2.80	0.49	0.21	0.11	0.640
VOL. WGT. MEAN	.	1968	22.59	.	2.32	0.40	0.15	0.08	0.388
MISSING VALUES	0	0	3	3	3	3	3	3	3

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.090	0.095	0.100	0.622	0.046	6.30	0.84	25.00	18.00
MINIMUM	0.015	0.010	0.015	0.098	0.000	0.74	0.00	0.94	6.30
ARITH. MEAN	0.031	0.044	0.045	0.362	0.011	2.08	0.27	9.62	9.96
ARITH. STD. DEV.	0.022	0.027	0.023	0.150	0.015	1.55	0.30	9.30	4.02
GEOM. MEAN	0.026	0.036	0.040	0.325	0.038	1.75	0.46	5.66	9.26
1ST QUARTILE	0.015	0.025	0.030	0.276	0.000	1.40	0.00	3.20	6.70
2ND QUARTILE	0.023	0.033	0.038	0.342	0.005	1.50	0.16	4.00	7.70
3RD QUARTILE	0.035	0.070	0.055	0.472	0.009	2.00	0.29	23.00	13.00
VOL. WGT. MEAN	0.029	0.040	0.045	0.338	0.012	1.89	0.45	9.75	9.75
MISSING VALUES	3	3	3	3	3	4	4	6	6

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	2.50	0.17	26.00	8.13	1.50	0.30	693.00	47.86
MINIMUM	0.55	0.08	4.50	0.18	0.00	0.00	39.90	18.62
ARITH. MEAN	1.33	0.12	17.06	2.00	0.36	0.07	123.92	36.35
ARITH. STD. DEV.	0.66	0.03	6.47	3.07	0.56	0.11	189.92	9.72
GEOM. MEAN	1.18	0.12	15.31	0.74	0.53	0.59	76.41	34.75
1ST QUARTILE	0.82	0.09	12.00	0.35	0.00	0.00	54.40	31.62
2ND QUARTILE	1.10	0.13	18.50	0.62	0.07	0.00	65.90	38.02
3RD QUARTILE	2.00	0.13	21.00	0.70	0.25	0.16	69.70	43.65
VOL. WGT. MEAN	1.32	0.12	16.08	1.92	0.69	0.23	158.37	36.30
MISSING VALUES	6	4	5	8	4	4	3	3

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: CLOYNE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	77.0	1869	21.00	4.50	1.70	0.55	0.27	0.11	0.360
MINIMUM	60.0	399	15.00	4.30	1.60	0.40	0.06	0.08	0.160
ARITH. MEAN	68.3	1300	18.00	4.40	1.65	0.48	0.17	0.10	0.260
ARITH. STD. DEV.	6.9	644	3.00	0.10	0.05	0.08	0.11	0.02	0.100
GEOM. MEAN	68.0	1067	17.75	4.40	1.65	0.47	0.13	0.09	0.240
1ST QUARTILE	60.0	399	15.00	4.30	1.60	0.40	0.06	0.08	0.160
2ND QUARTILE	68.0	1631	18.00	4.40	1.65	0.48	0.17	0.10	0.260
3RD QUARTILE	77.0	1869	21.00	4.50	1.70	0.55	0.27	0.11	0.360
VOL. WGT. MEAN	.	1312	18.37	.	1.66	0.48	0.18	0.09	0.272
MISSING VALUES	0	0	1	1	1	1	1	1	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	0.030	0.025	0.060	0.304	0.003	2.50	0.38	2.50	13.00
MINIMUM	0.010	0.005	0.035	0.124	0.000	2.10	0.00	2.50	4.30
ARITH. MEAN	0.020	0.015	0.048	0.214	0.002	2.30	0.19	2.50	8.65
ARITH. STD. DEV.	0.010	0.010	0.013	0.090	0.002	0.20	0.19	0.00	4.35
GEOM. MEAN	0.017	0.011	0.046	0.194	0.055	2.29	0.62	2.50	7.48
1ST QUARTILE	0.010	0.005	0.035	0.124	0.000	2.10	0.00	2.50	4.30
2ND QUARTILE	0.020	0.015	0.048	0.214	0.002	2.30	0.19	2.50	8.65
3RD QUARTILE	0.030	0.025	0.060	0.304	0.003	2.50	0.38	2.50	13.00
VOL. WGT. MEAN	0.021	0.016	0.049	0.225	0.003	2.32	0.38	2.50	8.11
MISSING VALUES	1	1	1	1	1	1	1	2	1

FREEH+

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	1.30	0.28	13.00	0.69	0.00	0.14	66.70	50.12
MINIMUM	0.59	0.08	6.10	0.69	0.00	0.00	46.60	31.62
ARITH. MEAN	0.95	0.18	9.55	0.69	0.00	0.07	56.65	40.87
ARITH. STD. DEV.	0.36	0.10	3.45	0.00	0.00	0.07	10.05	9.25
GEOM. MEAN	0.88	0.15	8.91	0.69	1.00	0.37	55.75	39.81
1ST QUARTILE	0.59	0.08	6.10	0.69	0.00	0.00	46.60	31.62
2ND QUARTILE	0.95	0.18	9.55	0.69	0.00	0.07	56.65	40.87
3RD QUARTILE	1.30	0.28	13.00	0.69	0.00	0.14	66.70	50.12
VOL. WGT. MEAN	0.99	0.19	9.98	0.69	0.00	0.14	55.40	39.72
MISSING VALUES	1	1	1	2	1	1	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: PT. PETRE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	125.0	3266	79.50	4.37	7.75	1.03	0.36	0.41	0.680
MINIMUM	24.0	1050	20.50	3.81	1.30	0.39	0.04	0.07	0.110
ARITH. MEAN	68.4	1951	41.35	4.12	3.69	0.66	0.18	0.16	0.419
ARITH. STD. DEV.	25.4	626	15.56	0.16	1.79	0.19	0.08	0.09	0.166
GEOM. MEAN	63.2	1849	38.74	4.12	3.29	0.64	0.16	0.14	0.377
1ST QUARTILE	55.0	1336	31.00	4.02	2.65	0.54	0.12	0.11	0.290
2ND QUARTILE	67.0	1987	38.00	4.14	2.90	0.65	0.15	0.12	0.500
3RD QUARTILE	82.0	2363	49.00	4.23	4.90	0.71	0.23	0.18	0.530
VOL. WGT. MEAN	.	2112	38.05	.	3.35	0.62	0.17	0.14	0.373
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.050	0.045	0.115	0.618	0.022	3.50	0.41	18.00	26.00
MINIMUM	0.010	0.005	0.020	0.122	0.000	0.78	0.00	2.70	4.70
ARITH. MEAN	0.031	0.025	0.048	0.378	0.006	1.97	0.23	6.36	11.23
ARITH. STD. DEV.	0.012	0.012	0.027	0.148	0.006	0.93	0.12	4.30	6.28
GEOM. MEAN	0.028	0.021	0.042	0.345	0.017	1.75	0.32	5.41	9.87
1ST QUARTILE	0.020	0.020	0.030	0.236	0.002	1.20	0.19	4.10	6.70
2ND QUARTILE	0.030	0.025	0.035	0.384	0.003	2.10	0.24	4.65	8.80
3RD QUARTILE	0.035	0.030	0.060	0.500	0.007	2.80	0.30	7.90	13.00
VOL. WGT. MEAN	0.029	0.022	0.047	0.339	0.006	2.03	0.27	5.67	11.20
MISSING VALUES	0	0	0	0	0	0	0	3	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	2.00	0.49	27.00	0.70	0.72	0.31	815.00	154.88
MINIMUM	0.07	0.10	3.30	0.13	0.00	0.00	64.30	42.66
ARITH. MEAN	1.24	0.21	14.34	0.39	0.15	0.10	163.28	81.58
ARITH. STD. DEV.	0.54	0.12	6.60	0.22	0.21	0.11	191.46	32.26
GEOM. MEAN	1.01	0.19	12.28	0.32	0.32	0.48	121.29	76.13
1ST QUARTILE	0.93	0.14	8.70	0.14	0.00	0.00	87.90	58.88
2ND QUARTILE	1.30	0.18	16.00	0.41	0.07	0.00	96.20	72.44
3RD QUARTILE	1.60	0.22	18.00	0.60	0.10	0.18	139.00	95.50
VOL. WGT. MEAN	1.25	0.22	14.32	0.39	0.24	0.20	159.86	75.02
MISSING VALUES	0	0	0	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
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STATION: MCKELLAR MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	255.0	5450	51.00	4.58	5.25	0.72	0.74	0.28	0.890
MINIMUM	9.0	360	18.00	4.07	1.70	0.34	0.11	0.07	0.280
ARITH. MEAN	117.1	2179	28.90	4.34	3.10	0.52	0.26	0.13	0.494
ARITH. STD. DEV.	67.1	1523	9.33	0.13	1.11	0.14	0.18	0.06	0.154
GEOM. MEAN	89.9	1646	27.57	4.34	2.91	0.50	0.21	0.12	0.473
1ST QUARTILE	70.0	1292	22.00	4.29	2.10	0.43	0.14	0.09	0.420
2ND QUARTILE	110.0	1634	26.50	4.34	3.08	0.49	0.19	0.12	0.495
3RD QUARTILE	158.0	2838	32.00	4.45	3.50	0.68	0.28	0.13	0.530
VOL. WGT. MEAN	.	2946	25.20	.	2.65	0.48	0.20	0.13	0.438
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	0.165	0.100	0.165	0.738	0.022	11.00	0.72	9.70	120.98
MINIMUM	0.020	0.015	0.015	0.262	0.000	1.40	0.00	2.90	5.60
ARITH. MEAN	0.053	0.040	0.064	0.444	0.006	3.24	0.32	4.66	46.22
ARITH. STD. DEV.	0.043	0.026	0.045	0.129	0.007	2.89	0.21	2.11	47.02
GEOM. MEAN	0.042	0.033	0.050	0.426	0.055	2.50	0.35	4.30	20.91
1ST QUARTILE	0.025	0.025	0.030	0.344	0.000	1.60	0.14	3.00	6.65
2ND QUARTILE	0.038	0.025	0.058	0.441	0.004	1.90	0.31	3.85	7.30
3RD QUARTILE	0.055	0.050	0.080	0.504	0.010	3.20	0.48	4.70	95.33
VOL. WGT. MEAN	0.041	0.035	0.080	0.387	0.008	2.46	0.40	5.18	31.12
MISSING VALUES	0	0	0	0	0	0	0	2	3

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	2.60	0.27	28.00	5.10	0.81	0.51	130.00	85.11
MINIMUM	0.82	0.07	4.10	0.71	0.00	0.00	49.50	26.30
ARITH. MEAN	1.46	0.16	11.90	2.01	0.18	0.18	74.22	47.60
ARITH. STD. DEV.	0.60	0.07	6.65	1.38	0.22	0.16	21.85	15.41
GEOM. MEAN	1.35	0.14	10.34	1.63	0.17	0.36	71.49	45.39
1ST QUARTILE	0.93	0.11	7.20	0.77	0.08	0.00	57.70	35.48
2ND QUARTILE	1.20	0.14	9.40	1.60	0.10	0.16	75.65	45.72
3RD QUARTILE	2.00	0.21	16.00	2.10	0.17	0.31	78.70	51.29
VOL. WGT. MEAN	1.58	0.16	13.15	1.56	0.31	0.22	66.72	43.07
MISSING VALUES	3	0	0	2	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
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STATION: KILLARNEY MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	9	9	9	9	9	9	9	9	9
MAXIMUM	155.0	4742	42.00	4.75	4.85	0.88	0.91	0.20	1.180
MINIMUM	25.0	805	10.00	4.15	1.60	0.29	0.09	0.03	0.290
ARITH. MEAN	78.8	2251	27.83	4.36	3.08	0.53	0.27	0.10	0.533
ARITH. STD. DEV.	42.4	1190	8.16	0.16	0.96	0.20	0.25	0.05	0.282
GEOM. MEAN	66.6	1940	26.24	4.36	2.93	0.50	0.20	0.09	0.475
1ST QUARTILE	42.0	1158	25.50	4.28	2.55	0.38	0.14	0.06	0.320
2ND QUARTILE	70.0	2128	27.00	4.33	2.90	0.47	0.15	0.10	0.390
3RD QUARTILE	104.0	2855	32.00	4.39	3.10	0.64	0.24	0.13	0.660
VOL. WGT. MEAN	.	2872	28.29	.	2.97	0.51	0.21	0.09	0.478
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	9	9	9	9	9	9	9	9	9
MAXIMUM	0.185	0.065	0.120	0.952	0.026	13.00	2.20	6.60	50.00
MINIMUM	0.020	0.015	0.000	0.286	0.000	1.10	0.00	3.20	5.88
ARITH. MEAN	0.050	0.031	0.039	0.503	0.006	3.37	0.48	4.77	25.63
ARITH. STD. DEV.	0.049	0.014	0.033	0.228	0.008	3.63	0.65	1.24	18.31
GEOM. MEAN	0.038	0.028	0.051	0.457	0.016	2.32	0.67	4.60	18.34
1ST QUARTILE	0.025	0.020	0.015	0.296	0.002	1.30	0.00	3.32	5.88
2ND QUARTILE	0.030	0.025	0.035	0.418	0.004	1.80	0.30	5.05	21.00
3RD QUARTILE	0.035	0.035	0.050	0.660	0.006	2.90	0.50	5.60	50.00
VOL. WGT. MEAN	0.039	0.029	0.036	0.466	0.005	2.49	0.60	4.58	32.06
MISSING VALUES	0	0	0	0	0	0	0	1	6

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	9	9	9	9	9	9	9	9
MAXIMUM	2.00	0.31	22.00	7.70	0.43	0.63	106.00	70.79
MINIMUM	0.65	0.05	4.60	0.34	0.00	0.00	40.80	17.78
ARITH. MEAN	1.32	0.13	11.00	1.89	0.12	0.16	69.54	45.84
ARITH. STD. DEV.	0.46	0.08	5.12	2.26	0.13	0.21	17.07	13.67
GEOM. MEAN	1.24	0.11	9.92	1.19	0.28	0.61	67.43	43.32
1ST QUARTILE	0.92	0.08	7.10	0.66	0.00	0.00	62.80	40.74
2ND QUARTILE	1.20	0.11	9.60	0.94	0.11	0.00	71.80	46.77
3RD QUARTILE	1.70	0.16	13.00	1.70	0.13	0.25	75.70	52.48
VOL. WGT. MEAN	1.43	0.13	9.67	1.36	0.17	0.43	72.18	48.68
MISSING VALUES	1	0	0	1	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
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1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: MATTAWA MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	162.3	4065	39.00	4.60	4.85	0.84	0.39	0.14	0.610
MINIMUM	24.0	73	14.00	4.12	1.25	0.19	0.08	0.01	0.190
ARITH. MEAN	86.2	1922	27.05	4.36	2.71	0.43	0.17	0.09	0.368
ARITH. STD. DEV.	46.5	1216	9.19	0.16	1.16	0.17	0.10	0.04	0.141
GEOM. MEAN	73.2	1336	25.43	4.36	2.46	0.40	0.14	0.07	0.341
1ST QUARTILE	50.0	832	19.00	4.23	1.80	0.30	0.11	0.06	0.240
2ND QUARTILE	70.0	1699	25.75	4.37	2.30	0.42	0.13	0.09	0.315
3RD QUARTILE	130.0	2721	37.00	4.49	3.60	0.47	0.16	0.14	0.510
VOL. WGT. MEAN		2348	23.49		2.24	0.41	0.14	0.08	0.350
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	0.075	0.050	0.095	0.554	0.016	5.40	1.90	7.20	57.46
MINIMUM	0.015	0.015	0.000	0.106	0.000	1.10	0.00	2.60	9.10
ARITH. MEAN	0.029	0.032	0.041	0.326	0.005	2.47	0.42	4.41	29.52
ARITH. STD. DEV.	0.017	0.011	0.029	0.149	0.005	1.27	0.53	1.66	20.44
GEOM. MEAN	0.026	0.030	0.053	0.289	0.015	2.19	0.45	4.13	22.57
1ST QUARTILE	0.020	0.025	0.020	0.202	0.002	1.40	0.13	3.10	9.10
2ND QUARTILE	0.025	0.030	0.035	0.299	0.005	1.95	0.30	3.80	22.00
3RD QUARTILE	0.030	0.035	0.050	0.452	0.007	3.40	0.44	6.60	57.46
VOL. WGT. MEAN	0.024	0.029	0.045	0.312	0.006	2.18	0.62	4.31	33.18
MISSING VALUES	0	0	0	0	0	0	0	3	7

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	5.90	0.20	26.00	7.80	0.67	0.44	110.00	75.86
MINIMUM	0.78	0.04	3.60	1.10	0.00	0.00	43.30	25.12
ARITH. MEAN	2.09	0.12	11.50	2.47	0.14	0.15	67.88	46.77
ARITH. STD. DEV.	1.56	0.06	7.00	2.40	0.21	0.13	18.97	16.78
GEOM. MEAN	1.69	0.11	9.38	1.83	0.45	0.31	65.49	43.85
1ST QUARTILE	0.97	0.06	4.10	1.20	0.00	0.00	54.60	32.36
2ND QUARTILE	1.60	0.12	10.25	1.35	0.05	0.15	61.85	43.50
3RD QUARTILE	2.30	0.19	17.00	2.00	0.12	0.18	82.20	58.88
VOL. WGT. MEAN	1.74	0.12	9.82	2.80	0.23	0.20	62.43	40.27
MISSING VALUES	2	0	0	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
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STATION: GOWGANDA MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	130.0	3663	40.50	4.92	4.40	0.51	0.25	0.12	0.550
MINIMUM	27.0	548	6.00	4.11	0.95	0.12	0.04	0.00	0.160
ARITH. MEAN	66.1	1680	19.35	4.49	2.03	0.30	0.10	0.07	0.296
ARITH. STD. DEV.	32.9	1005	11.25	0.25	1.15	0.13	0.07	0.04	0.129
GEOM. MEAN	58.6	1398	16.33	4.49	1.76	0.27	0.08	0.10	0.272
1ST QUARTILE	40.0	901	10.50	4.22	1.30	0.22	0.05	0.05	0.200
2ND QUARTILE	58.0	1370	14.75	4.52	1.50	0.26	0.07	0.07	0.230
3RD QUARTILE	95.0	2376	30.00	4.67	2.85	0.46	0.11	0.10	0.410
VOL. WGT. MEAN	.	1931	20.12	.	2.16	0.30	0.10	0.09	0.304
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	0.110	0.060	0.075	0.492	0.015	3.00	2.50	6.70	239.52
MINIMUM	0.010	0.010	0.000	0.090	0.000	0.86	0.00	1.70	7.10
ARITH. MEAN	0.028	0.031	0.035	0.236	0.005	1.56	0.63	3.14	59.42
ARITH. STD. DEV.	0.030	0.015	0.022	0.132	0.004	0.66	0.78	1.63	86.05
GEOM. MEAN	0.019	0.027	0.048	0.204	0.008	1.44	0.44	2.80	22.05
1ST QUARTILE	0.010	0.020	0.025	0.154	0.003	1.10	0.17	1.70	9.30
2ND QUARTILE	0.015	0.028	0.030	0.182	0.005	1.35	0.27	2.90	12.00
3RD QUARTILE	0.035	0.035	0.050	0.340	0.006	1.90	0.71	3.80	13.00
VOL. WGT. MEAN	0.033	0.034	0.039	0.243	0.006	1.63	0.82	3.41	77.62
MISSING VALUES	0	0	0	0	0	0	0	3	2

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	2.60	0.23	26.00	2.80	0.64	0.29	97.40	77.62
MINIMUM	0.20	0.03	2.10	0.34	0.00	0.00	37.90	12.02
ARITH. MEAN	1.03	0.10	10.82	1.03	0.10	0.11	58.22	37.66
ARITH. STD. DEV.	0.73	0.06	8.06	0.82	0.19	0.11	19.57	20.88
GEOM. MEAN	0.79	0.09	7.95	0.77	0.35	0.46	55.23	32.14
1ST QUARTILE	0.36	0.07	4.10	0.37	0.00	0.00	39.90	21.38
2ND QUARTILE	0.77	0.09	8.70	0.64	0.04	0.07	54.45	30.27
3RD QUARTILE	1.30	0.12	17.00	1.40	0.08	0.22	66.20	60.26
VOL. WGT. MEAN	1.12	0.09	11.73	1.01	0.31	0.21	57.22	38.71
MISSING VALUES	2	0	0	2	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: MOONBEAM MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	8	2640	23.50	8	8	8	8	8	8
MAXIMUM	115.0			6.22	3.15	0.42	0.28	0.83	1.050
MINIMUM	31.0	400	2.00	4.47	0.90	0.13	0.07	0.03	0.130
ARITH. MEAN	63.4	1628	13.88	5.02	1.66	0.28	0.15	0.20	0.466
ARITH. STD. DEV.	27.9	858	6.08	0.65	0.66	0.11	0.07	0.25	0.282
GEOM. MEAN	57.8	1338	11.65	4.99	1.55	0.26	0.13	0.12	0.383
1ST QUARTILE	39.0	548	10.50	4.50	1.00	0.15	0.08	0.07	0.200
2ND QUARTILE	50.0	1753	13.75	4.65	1.58	0.29	0.14	0.10	0.455
3RD QUARTILE	75.0	2321	17.50	5.35	1.65	0.35	0.18	0.12	0.520
VOL. WGT. MEAN		1917	12.90		1.61	0.26	0.15	0.25	0.490
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	8	8	8	8	8	8	8	8	8
MAXIMUM	0.050	0.295	0.625	0.568	0.105	4.90	1.60	22.00	9.50
MINIMUM	0.010	0.010	0.025	0.132	0.000	0.82	0.00	2.60	4.90
ARITH. MEAN	0.031	0.094	0.146	0.315	0.018	2.58	0.53	10.46	6.63
ARITH. STD. DEV.	0.013	0.096	0.188	0.156	0.033	1.36	0.47	7.83	2.04
GEOM. MEAN	0.027	0.050	0.082	0.276	0.032	2.22	0.51	7.35	6.35
1ST QUARTILE	0.015	0.010	0.035	0.160	0.000	1.60	0.13	2.70	4.90
2ND QUARTILE	0.035	0.050	0.080	0.271	0.005	1.95	0.37	7.90	5.50
3RD QUARTILE	0.040	0.130	0.085	0.456	0.009	3.30	0.63	16.00	9.50
VOL. WGT. MEAN	0.030	0.104	0.191	0.287	0.019	2.52	0.70	11.72	5.99
MISSING VALUES	0	0	0	0	0	0	0	0	5

FREEH+

	LEAD UG/L	VANADIUM UG/L	ALUMINIUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	LAB UG/L
# OF SAMPLES	8	8	8	8	8	8	8	8
MAXIMUM	2.90	0.15	41.00	4.70	28.00	0.38	58.00	33.88
MINIMUM	0.27	0.04	2.00	0.62	0.00	0.00	20.40	0.60
ARITH. MEAN	0.96	0.10	11.23	1.76	3.97	0.11	40.49	18.63
ARITH. STD. DEV.	0.83	0.03	11.90	1.37	9.13	0.13	13.71	13.48
GEOM. MEAN	0.72	0.09	7.32	1.36	0.52	0.45	37.89	9.44
1ST QUARTILE	0.36	0.06	3.20	0.78	0.08	0.00	23.60	1.38
2ND QUARTILE	0.66	0.10	7.00	1.00	0.16	0.06	43.65	23.08
3RD QUARTILE	1.00	0.12	11.00	2.60	0.37	0.20	50.00	30.90
VOL. WGT. MEAN	1.20	0.09	13.88	1.73	7.65	0.20	38.21	17.14
MISSING VALUES	1	0	0	1	0	0	0	0

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STATION: WHITNEY MIC TYPE A SITE NO.1

		EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	:	2	2	2	2	2	2	2	2	2
MAXIMUM	:	56.0	1032	26.00	4.50	2.05	0.71	0.38	0.11	0.490
MINIMUM	:	44.0	684	16.00	4.39	1.05	0.42	0.11	0.06	0.230
ARITH. MEAN	:	50.0	858	21.00	4.45	1.55	0.56	0.25	0.08	0.360
ARITH. STD. DEV.	:	6.0	174	5.00	0.06	0.50	0.15	0.14	0.03	0.130
GEOM. MEAN	:	49.6	840	20.40	4.44	1.47	0.55	0.20	0.08	0.336
1ST QUARTILE	:	44.0	684	16.00	4.39	1.05	0.42	0.11	0.06	0.230
2ND QUARTILE	:	50.0	858	21.00	4.45	1.55	0.56	0.25	0.08	0.360
3RD QUARTILE	:	56.0	1032	26.00	4.50	2.05	0.71	0.38	0.11	0.490
VOL. WGT. MEAN	:	.	837	20.40	.	1.49	0.55	0.23	0.08	0.344
MISSING VALUES	:	0	0	0	0	0	0	0	0	0

		MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	:	2	2	2	2	2	2	2	2	2
MAXIMUM	:	0.045	0.025	0.075	0.382	0.008	3.70	0.29	4.10	9.85
MINIMUM	:	0.010	0.015	0.025	0.168	0.002	2.80	0.25	3.40	7.88
ARITH. MEAN	:	0.028	0.020	0.050	0.275	0.005	3.25	0.27	3.75	8.86
ARITH. STD. DEV.	:	0.018	0.005	0.025	0.107	0.003	0.45	0.02	0.35	0.99
GEOM. MEAN	:	0.021	0.019	0.043	0.253	0.004	3.22	0.27	3.73	8.81
1ST QUARTILE	:	0.010	0.015	0.025	0.168	0.002	2.80	0.25	3.40	7.88
2ND QUARTILE	:	0.028	0.020	0.050	0.275	0.005	3.25	0.27	3.75	8.86
3RD QUARTILE	:	0.045	0.025	0.075	0.382	0.008	3.70	0.29	4.10	9.85
VOL. WGT. MEAN	:	0.025	0.019	0.047	0.262	0.005	3.20	0.27	3.71	8.98
MISSING VALUES	:	0	0	0	0	0	0	0	0	0

		LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	:	2	2	2	2	2	2	2	2
MAXIMUM	:	1.40	0.21	19.00	0.74	0.14	0.26	56.00	40.74
MINIMUM	:	1.40	0.14	18.00	0.54	0.07	0.00	55.70	31.62
ARITH. MEAN	:	1.40	0.18	18.50	0.64	0.11	0.13	55.85	36.18
ARITH. STD. DEV.	:	0.00	0.03	0.50	0.10	0.04	0.13	0.15	4.56
GEOM. MEAN	:	1.40	0.17	18.49	0.63	0.10	0.51	55.85	35.89
1ST QUARTILE	:	1.40	0.14	18.00	0.54	0.07	0.00	55.70	31.62
2ND QUARTILE	:	1.40	0.18	18.50	0.64	0.11	0.13	55.85	36.18
3RD QUARTILE	:	1.40	0.21	19.00	0.74	0.14	0.26	56.00	40.74
VOL. WGT. MEAN	:	1.40	0.17	18.44	0.65	0.11	0.26	55.87	35.63
MISSING VALUES	:	1	0	0	0	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
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1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: TURKEY LAKES MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	263.0	4430	32.00	5.03	3.70	0.59	0.52	0.18	0.880
MINIMUM	37.0	1147	15.00	4.32	1.30	0.27	0.10	0.04	0.380
ARITH. MEAN	98.0	2318	22.10	4.53	2.60	0.46	0.24	0.09	0.553
ARITH. STD. DEV.	61.4	1071	5.58	0.20	0.74	0.10	0.12	0.04	0.138
GEOM. MEAN	84.4	2098	21.41	4.52	2.49	0.44	0.21	0.08	0.538
1ST QUARTILE	58.0	1638	17.50	4.39	1.95	0.36	0.15	0.06	0.480
2ND QUARTILE	80.0	1888	20.50	4.50	2.60	0.48	0.21	0.10	0.515
3RD QUARTILE	118.0	2763	27.00	4.58	3.15	0.55	0.28	0.11	0.640
VOL. WGT. MEAN	.	2923	22.90	.	2.66	0.47	0.24	0.09	0.558
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	0.125	0.110	0.075	0.728	0.015	17.00	1.80	44.00	18.00
MINIMUM	0.020	0.020	0.015	0.300	0.000	1.60	0.00	2.30	6.44
ARITH. MEAN	0.050	0.038	0.041	0.519	0.005	4.98	0.31	8.34	11.26
ARITH. STD. DEV.	0.030	0.026	0.019	0.116	0.004	4.36	0.51	13.51	4.61
GEOM. MEAN	0.042	0.033	0.037	0.505	0.016	3.82	0.41	4.35	10.35
1ST QUARTILE	0.025	0.025	0.025	0.444	0.003	2.40	0.00	2.40	6.44
2ND QUARTILE	0.040	0.028	0.035	0.506	0.005	3.50	0.18	3.10	10.30
3RD QUARTILE	0.060	0.045	0.060	0.630	0.009	4.90	0.27	4.30	13.00
VOL. WGT. MEAN	0.054	0.052	0.042	0.504	0.007	7.10	0.80	15.65	11.46
MISSING VALUES	0	0	0	0	0	0	0	2	6

	LEAD UG/L	VANADIUM UG/L	ALUMINIUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	3.30	0.31	32.00	0.39	1.20	0.45	85.80	47.86
MINIMUM	0.17	0.06	2.90	0.16	0.00	0.00	27.80	9.33
ARITH. MEAN	1.20	0.13	9.08	0.28	0.18	0.12	56.24	32.27
ARITH. STD. DEV.	0.98	0.07	8.38	0.10	0.35	0.15	16.64	11.27
GEOM. MEAN	0.79	0.12	6.79	0.26	0.45	0.46	53.66	29.65
1ST QUARTILE	0.33	0.09	3.90	0.16	0.00	0.00	43.10	26.30
2ND QUARTILE	1.00	0.11	5.55	0.28	0.03	0.07	51.90	32.01
3RD QUARTILE	1.70	0.15	13.00	0.37	0.17	0.19	72.20	40.74
VOL. WGT. MEAN	1.56	0.15	12.94	0.31	0.62	0.27	58.99	35.04
MISSING VALUES	1	0	0	6	0	0	0	0

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STATION: MOOSENEE MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
MAXIMUM	125.0	3308	49.50	7.85	2.05	0.38	7.67	1.43	0.550
MINIMUM	20.0	365	5.82	4.60	0.70	0.07	0.04	0.05	0.150
ARITH. MEAN	73.4	2027	16.33	5.65	1.36	0.20	1.22	0.45	0.287
ARITH. STD. DEV.	35.4	929	13.99	1.15	0.48	0.10	2.63	0.56	0.138
GEOM. MEAN	63.5	1705	12.72	5.55	1.27	0.17	0.19	0.18	0.259
1ST QUARTILE	49.0	1532	8.00	4.83	0.90	0.11	0.06	0.05	0.160
2ND QUARTILE	69.0	2096	10.50	5.11	1.35	0.20	0.09	0.12	0.230
3RD QUARTILE	120.0	3110	16.50	6.41	2.00	0.28	0.42	1.23	0.430
VOL. WGT. MEAN	.	2467	11.49	.	1.19	0.17	0.41	0.43	0.243
MISSING VALUES	0	0	0	1	0	0	0	0	0

# OF SAMPLES	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
MAXIMUM	1.285	0.055	0.895	0.428	0.022	2.40	1.30	17.00	36.00
MINIMUM	0.010	0.015	0.015	0.068	0.000	0.67	0.00	1.70	5.10
ARITH. MEAN	0.231	0.036	0.264	0.221	0.006	1.46	0.36	5.00	13.07
ARITH. STD. DEV.	0.431	0.012	0.336	0.117	0.007	0.69	0.51	5.47	13.24
GEOM. MEAN	0.074	0.033	0.098	0.190	0.011	1.29	0.84	3.30	8.70
1ST QUARTILE	0.040	0.025	0.025	0.150	0.003	0.76	0.00	1.70	5.10
2ND QUARTILE	0.065	0.040	0.065	0.156	0.003	1.40	0.00	2.40	5.60
3RD QUARTILE	0.090	0.045	0.675	0.344	0.010	2.30	1.00	4.80	5.91
VOL. WGT. MEAN	0.101	0.034	0.254	0.185	0.006	1.18	0.77	5.14	7.72
MISSING VALUES	0	0	0	0	0	0	0	1	3

# OF SAMPLES	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
MAXIMUM	2.60	0.23	36.00	1.60	13.00	0.43	36.50	25.12
MINIMUM	0.21	0.02	1.40	0.40	0.00	0.00	4.03	0.01
ARITH. MEAN	0.79	0.10	12.24	0.76	1.88	0.11	24.17	9.76
ARITH. STD. DEV.	0.84	0.08	14.46	0.45	4.54	0.15	10.90	9.02
GEOM. MEAN	0.51	0.07	5.73	0.65	1.09	0.53	19.92	2.24
1ST QUARTILE	0.25	0.04	2.10	0.44	0.00	0.00	21.20	0.39
2ND QUARTILE	0.40	0.06	4.70	0.50	0.00	0.00	23.55	9.14
3RD QUARTILE	0.86	0.20	34.00	0.84	0.14	0.24	36.20	14.79
VOL. WGT. MEAN	0.84	0.07	8.98	0.71	7.90	0.21	26.04	9.61
MISSING VALUES	1	0	0	2	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: MCFARLANE LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	129.0	3445	52.00	4.52	7.15	0.73	0.52	0.33	0.890
MINIMUM	3.0	165	20.00	4.06	1.30	0.19	0.05	0.02	0.240
ARITH. MEAN	78.1	2107	29.30	4.30	3.23	0.44	0.19	0.13	0.471
ARITH. STD. DEV.	41.0	1071	9.00	0.12	1.59	0.17	0.13	0.09	0.217
GEOM. MEAN	57.0	1646	28.17	4.30	2.90	0.41	0.16	0.10	0.428
1ST QUARTILE	45.0	1365	23.00	4.23	2.35	0.33	0.10	0.06	0.310
2ND QUARTILE	78.0	2253	27.00	4.31	2.85	0.41	0.16	0.12	0.375
3RD QUARTILE	120.0	2992	30.00	4.37	3.60	0.58	0.22	0.14	0.670
VOL. WGT. MEAN	.	2654	25.56	.	2.65	0.42	0.15	0.11	0.392
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10	10
MAXIMUM	0.110	0.040	0.195	0.788	0.014	7.30	11.00	17.00	38.00
MINIMUM	0.010	0.015	0.000	0.236	0.000	1.20	0.96	2.70	5.00
ARITH. MEAN	0.035	0.025	0.061	0.425	0.005	2.52	5.24	6.08	17.72
ARITH. STD. DEV.	0.028	0.010	0.057	0.192	0.005	1.75	3.26	4.96	12.07
GEOM. MEAN	0.028	0.023	0.065	0.386	0.014	2.13	4.13	4.85	13.71
1ST QUARTILE	0.020	0.015	0.015	0.280	0.002	1.30	3.20	2.90	7.60
2ND QUARTILE	0.025	0.020	0.053	0.315	0.003	1.90	4.40	4.45	14.00
3RD QUARTILE	0.040	0.035	0.075	0.632	0.011	2.90	8.30	5.00	24.00
VOL. WGT. MEAN	0.027	0.022	0.064	0.368	0.004	1.97	4.66	6.10	13.10
MISSING VALUES	0	0	0	0	0	0	0	4	5

	LEAD UG/L	VANADIUM UG/L	ALUMINIUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	10.00	0.26	48.00	18.00	1.10	2.20	77.90	87.10
MINIMUM	0.63	0.04	4.40	2.20	0.00	0.00	54.90	30.20
ARITH. MEAN	4.12	0.14	18.29	9.02	0.34	0.75	68.00	51.63
ARITH. STD. DEV.	3.11	0.06	15.93	5.05	0.29	0.69	8.68	14.60
GEOM. MEAN	3.12	0.12	12.36	7.29	0.34	0.76	67.43	49.77
1ST QUARTILE	2.00	0.08	5.60	3.50	0.19	0.21	57.70	42.66
2ND QUARTILE	3.15	0.15	9.40	9.50	0.25	0.64	68.15	48.99
3RD QUARTILE	4.20	0.18	38.00	12.00	0.34	1.40	77.10	58.88
VOL. WGT. MEAN	3.07	0.11	13.49	8.48	0.39	0.81	67.74	46.06
MISSING VALUES	0	0	0	1	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: HANMER-2 MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	11	11	11	11	11	11	11	11	11
MAXIMUM	128.0	3996	50.00	4.50	5.05	0.80	0.38	0.45	0.810
MINIMUM	17.0	108	17.00	4.03	1.60	0.15	0.04	0.01	0.170
ARITH. MEAN	72.2	1769	28.23	4.31	2.84	0.48	0.17	0.13	0.446
ARITH. STD. DEV.	33.0	1249	8.91	0.14	1.17	0.17	0.11	0.11	0.193
GEOM. MEAN	63.4	1197	27.01	4.31	2.62	0.44	0.13	0.10	0.402
1ST QUARTILE	48.0	520	23.00	4.21	1.75	0.36	0.08	0.07	0.320
2ND QUARTILE	63.0	1410	25.00	4.34	2.40	0.53	0.16	0.10	0.390
3RD QUARTILE	106.0	3086	30.00	4.41	4.25	0.59	0.20	0.14	0.600
VOL. WGT. MEAN	.	2228	25.88	.	2.52	0.44	0.13	0.13	0.375
MISSING VALUES	0	0	0	1	0	0	1	0	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	11	11	11	11	11	11	11	11	11
MAXIMUM	0.075	0.110	0.085	0.586	0.014	5.80	5.60	337.22	30.00
MINIMUM	0.010	0.015	0.000	0.140	0.000	1.00	0.34	1.70	5.10
ARITH. MEAN	0.033	0.034	0.040	0.382	0.005	2.68	2.99	41.20	15.68
ARITH. STD. DEV.	0.021	0.026	0.022	0.146	0.005	1.71	1.52	104.66	8.01
GEOM. MEAN	0.027	0.028	0.056	0.350	0.049	2.19	2.46	6.53	13.58
1ST QUARTILE	0.015	0.020	0.025	0.226	0.000	1.20	1.90	3.80	10.00
2ND QUARTILE	0.028	0.025	0.035	0.386	0.003	1.70	2.40	4.70	14.00
3RD QUARTILE	0.040	0.030	0.055	0.560	0.008	4.90	4.50	5.10	21.00
VOL. WGT. MEAN	0.025	0.036	0.046	0.335	0.006	2.30	2.85	39.49	12.70
MISSING VALUES	1	1	1	0	1	0	0	2	5

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	11	11	11	11	11	11	11	11
MAXIMUM	29.00	0.28	32.00	12.00	1.40	1.40	127.00	93.33
MINIMUM	1.90	0.02	4.90	1.10	0.00	0.00	51.40	31.62
ARITH. MEAN	6.06	0.13	15.19	5.74	0.35	0.57	76.27	51.69
ARITH. STD. DEV.	8.70	0.07	8.55	3.04	0.36	0.45	20.63	17.64
GEOM. MEAN	3.62	0.11	12.78	4.88	0.31	0.64	73.83	49.09
1ST QUARTILE	2.00	0.08	7.40	3.80	0.13	0.16	61.90	38.90
2ND QUARTILE	2.70	0.12	12.00	4.90	0.28	0.39	75.25	46.24
3RD QUARTILE	3.80	0.16	23.00	7.30	0.42	1.10	82.20	61.66
VOL. WGT. MEAN	7.88	0.12	13.80	5.38	0.37	0.78	70.85	48.10
MISSING VALUES	3	0	0	1	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: DORION MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
13	13	13	13	13	13	13	13	13	13
MAXIMUM	134.6	2702	23.50	5.93	3.00	0.74	0.35	0.17	1.030
MINIMUM	19.8	517	6.18	4.61	0.45	0.15	0.05	0.03	0.120
ARITH. MEAN	57.3	1464	11.13	5.01	1.31	0.31	0.17	0.07	0.417
ARITH. STD. DEV.	30.0	726	4.79	0.41	0.65	0.14	0.08	0.04	0.259
GEOM. MEAN	50.1	1271	10.27	5.00	1.17	0.29	0.15	0.06	0.343
1ST QUARTILE	38.0	873	7.00	4.69	0.85	0.24	0.10	0.04	0.230
2ND QUARTILE	49.4	1429	10.50	4.85	1.15	0.29	0.17	0.07	0.350
3RD QUARTILE	73.3	2001	14.00	5.10	1.55	0.33	0.20	0.08	0.590
VOL. WGT. MEAN	.	1813	10.13	.	1.27	0.29	0.16	0.06	0.392
MISSING VALUES	0	0	0	0	0	0	0	0	0

# OF SAMPLES	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
13	13	13	13	13	13	13	13	13	13
MAXIMUM	0.070	0.100	0.165	0.866	0.049	5.80	0.80	9.30	15.00
MINIMUM	0.010	0.015	0.000	0.000	0.000	0.72	0.00	0.99	5.52
ARITH. MEAN	0.033	0.040	0.053	0.309	0.015	2.88	0.22	3.51	9.92
ARITH. STD. DEV.	0.019	0.030	0.044	0.212	0.016	1.36	0.24	2.54	3.68
GEOM. MEAN	0.029	0.032	0.055	0.310	0.014	2.53	0.40	2.70	9.24
1ST QUARTILE	0.020	0.020	0.015	0.160	0.004	2.00	0.00	1.30	6.80
2ND QUARTILE	0.025	0.025	0.050	0.260	0.008	2.90	0.16	2.85	9.10
3RD QUARTILE	0.040	0.045	0.065	0.430	0.018	3.40	0.28	5.30	14.00
VOL. WGT. MEAN	0.031	0.037	0.044	0.321	0.013	2.69	0.28	3.07	8.44
MISSING VALUES	0	0	0	0	0	0	0	3	7

# OF SAMPLES	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREH+ LAB UG/L
13	13	13	13	13	13	13	13	13
MAXIMUM	1.40	0.28	30.00	0.71	0.19	0.52	57.40	24.55
MINIMUM	0.06	0.00	2.00	0.14	0.00	0.00	16.60	1.17
ARITH. MEAN	0.48	0.09	8.99	0.37	0.04	0.11	32.65	13.34
ARITH. STD. DEV.	0.46	0.07	7.83	0.18	0.05	0.15	11.49	7.91
GEOM. MEAN	0.27	0.10	6.57	0.33	0.32	0.48	30.71	9.69
1ST QUARTILE	0.06	0.04	4.30	0.26	0.00	0.00	24.50	7.94
2ND QUARTILE	0.29	0.08	5.00	0.31	0.00	0.00	30.60	14.13
3RD QUARTILE	0.71	0.12	12.00	0.40	0.07	0.18	36.80	20.42
VOL. WGT. MEAN	0.37	0.08	7.14	0.36	0.09	0.21	31.27	11.61
MISSING VALUES	2	0	0	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: EAR FALLS MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	55.7	1283	9.00	5.10	0.75	0.27	0.27	0.24	0.130
MINIMUM	23.7	346	5.00	4.77	0.45	0.14	0.09	0.08	0.080
ARITH. MEAN	39.0	720	7.00	4.91	0.62	0.20	0.18	0.14	0.100
ARITH. STD. DEV.	13.1	405	1.63	0.14	0.12	0.05	0.07	0.07	0.022
GEOM. MEAN	36.7	618	6.80	4.91	0.60	0.19	0.17	0.12	0.098
1ST QUARTILE	23.7	346	5.00	4.77	0.45	0.14	0.09	0.08	0.080
2ND QUARTILE	37.5	532	7.00	4.87	0.65	0.18	0.19	0.09	0.090
3RD QUARTILE	55.7	1283	9.00	5.10	0.75	0.27	0.27	0.24	0.130
VOL. WGT. MEAN	.	852	6.76	.	0.63	0.18	0.17	0.12	0.106
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3	3
MAXIMUM	0.040	0.030	0.195	0.126	0.009	4.60	0.44	0.92	19.00
MINIMUM	0.015	0.010	0.070	0.002	0.006	1.50	0.12	0.92	11.52
ARITH. MEAN	0.027	0.022	0.115	0.052	0.008	3.20	0.27	0.92	15.26
ARITH. STD. DEV.	0.010	0.008	0.057	0.053	0.001	1.28	0.13	0.00	3.74
GEOM. MEAN	0.025	0.020	0.103	0.019	0.008	2.89	0.24	0.92	14.79
1ST QUARTILE	0.015	0.010	0.070	0.002	0.006	1.50	0.12	0.92	11.52
2ND QUARTILE	0.025	0.025	0.080	0.028	0.008	3.50	0.26	0.92	15.26
3RD QUARTILE	0.040	0.030	0.195	0.126	0.009	4.60	0.44	0.92	19.00
VOL. WGT. MEAN	0.025	0.021	0.099	0.069	0.007	3.08	0.25	0.92	15.99
MISSING VALUES	0	0	0	0	0	0	0	2	1

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	1.30	0.13	18.00	.	0.15	0.45	34.50	16.98
MINIMUM	1.30	0.04	9.50	.	0.00	0.12	20.70	7.94
ARITH. MEAN	1.30	0.09	13.75	.	0.07	0.29	28.50	12.81
ARITH. STD. DEV.	0.00	0.04	4.25	.	0.06	0.14	5.78	3.72
GEOM. MEAN	1.30	0.08	13.08	.	0.21	0.26	27.87	12.21
1ST QUARTILE	1.30	0.04	9.50	.	0.00	0.12	20.70	7.94
2ND QUARTILE	1.30	0.11	13.75	.	0.06	0.31	30.30	13.49
3RD QUARTILE	1.30	0.13	18.00	.	0.15	0.45	34.50	16.98
VOL. WGT. MEAN	1.30	0.09	12.92	0.00	0.12	0.28	29.70	11.56
MISSING VALUES	2	0	1	3	0	0	0	0

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STATION: PICKLE LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	82.0	2548	24.00	6.05	2.70	0.43	0.41	0.17	0.740
MINIMUM	7.1	158	3.00	4.28	0.15	0.10	0.00	0.01	0.000
ARITH. MEAN	44.9	1112	8.43	5.31	1.03	0.21	0.13	0.06	0.332
ARITH. STD. DEV.	24.2	711	5.11	0.46	0.61	0.09	0.11	0.04	0.199
GEOM. MEAN	35.9	872	7.39	5.29	0.84	0.19	0.13	0.05	0.341
1ST QUARTILE	17.0	589	5.50	5.13	0.75	0.15	0.05	0.03	0.220
2ND QUARTILE	51.0	807	7.00	5.35	0.90	0.18	0.12	0.05	0.290
3RD QUARTILE	56.5	1608	8.50	5.49	1.30	0.26	0.19	0.09	0.520
VOL. WGT. MEAN	.	1433	7.55	.	0.95	0.21	0.13	0.05	0.346
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.070	0.140	0.090	0.520	0.039	5.70	1.10	4.30	15.00
MINIMUM	0.000	0.000	0.000	0.002	0.000	0.54	0.00	0.67	5.70
ARITH. MEAN	0.031	0.044	0.030	0.240	0.009	2.54	0.23	1.75	8.66
ARITH. STD. DEV.	0.022	0.040	0.022	0.133	0.012	1.68	0.30	1.09	3.09
GEOM. MEAN	0.034	0.044	0.037	0.158	0.037	1.97	0.40	1.48	8.20
1ST QUARTILE	0.015	0.025	0.020	0.194	0.000	0.92	0.00	0.79	6.49
2ND QUARTILE	0.020	0.030	0.025	0.234	0.004	2.25	0.15	1.45	7.88
3RD QUARTILE	0.050	0.050	0.035	0.266	0.020	3.20	0.21	1.70	9.01
VOL. WGT. MEAN	0.031	0.050	0.028	0.253	0.013	2.58	0.31	1.63	8.39
MISSING VALUES	0	0	0	0	0	1	1	5	7

FREEH+

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	1.60	0.19	11.00	5.30	0.26	0.48	57.20	52.48
MINIMUM	0.04	0.00	1.10	0.12	0.00	0.00	15.50	0.89
ARITH. MEAN	0.52	0.07	4.31	1.06	0.04	0.09	27.64	9.53
ARITH. STD. DEV.	0.57	0.06	2.54	1.90	0.08	0.15	9.69	13.82
GEOM. MEAN	0.25	0.09	3.67	0.33	0.48	0.64	26.33	4.93
1ST QUARTILE	0.08	0.01	3.30	0.14	0.00	0.00	21.80	3.24
2ND QUARTILE	0.37	0.04	3.50	0.19	0.00	0.00	26.70	4.47
3RD QUARTILE	0.50	0.12	5.70	0.42	0.06	0.19	30.20	7.41
VOL. WGT. MEAN	0.37	0.07	4.07	0.48	0.10	0.27	25.85	7.56
MISSING VALUES	8	1	2	7	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: QUETICO CENTRE MIC TYPE A SITE NO.1

		EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	:	13	13	13	13	13	13	13	13	13
MAXIMUM	:	118.8	3334	25.00	6.56	2.65	0.61	0.35	0.17	2.300
MINIMUM	:	17.1	356	5.00	4.48	0.30	0.16	0.05	0.01	0.060
ARITH. MEAN	:	55.7	1480	9.59	5.25	1.08	0.27	0.17	0.08	0.417
ARITH. STD. DEV.	:	30.9	874	5.03	0.61	0.61	0.11	0.09	0.04	0.566
GEOM. MEAN	:	47.2	1217	8.74	5.22	0.91	0.26	0.14	0.06	0.260
1ST QUARTILE	:	28.4	732	7.00	4.86	0.70	0.22	0.09	0.04	0.180
2ND QUARTILE	:	53.2	1325	8.00	4.99	1.05	0.24	0.18	0.07	0.220
3RD QUARTILE	:	76.2	2343	9.00	5.87	1.30	0.29	0.22	0.10	0.330
VOL. WGT. MEAN	:	.	1956	8.55	.	1.01	0.24	0.16	0.06	0.363
MISSING VALUES	:	0	0	0	0	0	0	0	0	0

		MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	:	13	13	13	13	13	13	13	13	13
MAXIMUM	:	0.055	0.265	0.125	0.814	0.083	6.30	0.33	7.00	55.00
MINIMUM	:	0.000	0.000	0.015	0.032	0.000	0.07	0.00	1.00	5.20
ARITH. MEAN	:	0.027	0.042	0.056	0.295	0.011	2.96	0.13	3.03	18.09
ARITH. STD. DEV.	:	0.014	0.067	0.033	0.225	0.021	1.91	0.12	2.04	18.83
GEOM. MEAN	:	0.034	0.076	0.047	0.203	0.022	1.96	0.38	2.44	11.83
1ST QUARTILE	:	0.020	0.015	0.030	0.106	0.002	1.20	0.00	1.30	6.75
2ND QUARTILE	:	0.030	0.020	0.050	0.266	0.004	3.20	0.19	2.35	7.52
3RD QUARTILE	:	0.035	0.045	0.080	0.396	0.007	3.90	0.21	3.50	16.00
VOL. WGT. MEAN	:	0.027	0.044	0.044	0.280	0.011	2.44	0.19	2.52	10.87
MISSING VALUES	:	0	0	0	0	0	0	0	3	8

		LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	:	13	13	13	13	13	13	13	13
MAXIMUM	:	0.83	0.31	33.00	0.39	0.44	0.52	163.00	33.11
MINIMUM	:	0.10	0.01	1.70	0.12	0.00	0.00	19.70	0.28
ARITH. MEAN	:	0.29	0.08	10.48	0.28	0.09	0.12	40.39	10.47
ARITH. STD. DEV.	:	0.21	0.07	10.09	0.09	0.12	0.15	37.40	8.75
GEOM. MEAN	:	0.23	0.06	6.85	0.26	0.44	0.42	32.30	5.60
1ST QUARTILE	:	0.13	0.04	3.20	0.20	0.00	0.00	21.40	1.35
2ND QUARTILE	:	0.24	0.05	5.60	0.31	0.00	0.12	28.50	10.23
3RD QUARTILE	:	0.32	0.09	12.00	0.37	0.16	0.22	36.10	13.80
VOL. WGT. MEAN	:	0.25	0.07	6.71	0.27	0.18	0.22	37.72	8.76
MISSING VALUES	:	3	0	0	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: E.L.A. MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	145.0	4080	31.00	6.63	3.75	1.15	0.54	0.41	1.470
MINIMUM	11.0	216	4.00	4.68	0.35	0.13	0.06	0.02	0.100
ARITH. MEAN	40.3	931	9.75	5.42	1.24	0.35	0.23	0.12	0.452
ARITH. STD. DEV.	32.8	1001	6.67	0.69	0.86	0.24	0.13	0.11	0.358
GEOM. MEAN	32.6	629	8.37	5.38	1.03	0.30	0.19	0.08	0.342
1ST QUARTILE	22.1	275	6.00	4.88	0.75	0.25	0.12	0.04	0.190
2ND QUARTILE	31.0	644	8.50	4.95	0.95	0.27	0.21	0.07	0.410
3RD QUARTILE	43.0	991	11.00	6.18	1.40	0.36	0.28	0.17	0.600
VOL. WGT. MEAN		1728	7.86		0.98	0.28	0.19	0.08	0.381
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.100	0.095	0.270	1.200	0.038	5.10	0.40	4.40	526.92
MINIMUM	0.010	0.000	0.000	0.036	0.000	1.00	0.00	0.30	9.20
ARITH. MEAN	0.047	0.031	0.095	0.343	0.014	3.15	0.14	1.33	139.18
ARITH. STD. DEV.	0.028	0.028	0.084	0.301	0.011	1.29	0.13	1.15	223.86
GEOM. MEAN	0.037	0.048	0.126	0.232	0.024	2.84	0.36	1.01	26.75
1ST QUARTILE	0.025	0.010	0.040	0.116	0.004	1.90	0.00	0.89	9.20
2ND QUARTILE	0.045	0.020	0.070	0.282	0.012	3.20	0.14	0.92	10.30
3RD QUARTILE	0.070	0.045	0.135	0.436	0.018	4.30	0.19	1.20	11.00
VOL. WGT. MEAN	0.037	0.031	0.087	0.300	0.016	2.85	0.21	1.04	151.56
MISSING VALUES	0	0	0	0	0	2	2	4	9

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	0.51	0.13	40.00	0.56	0.19	0.29	62.60	20.89
MINIMUM	0.06	0.03	2.30	0.13	0.00	0.00	15.20	0.23
ARITH. MEAN	0.29	0.07	13.16	0.27	0.07	0.08	28.67	8.55
ARITH. STD. DEV.	0.17	0.03	13.69	0.17	0.08	0.11	13.03	7.26
GEOM. MEAN	0.22	0.06	7.60	0.22	0.40	0.58	26.34	3.78
1ST QUARTILE	0.06	0.04	3.10	0.14	0.00	0.00	20.20	0.66
2ND QUARTILE	0.29	0.06	4.80	0.16	0.00	0.00	21.50	11.22
3RD QUARTILE	0.36	0.10	22.00	0.46	0.16	0.21	30.90	13.18
VOL. WGT. MEAN	0.27	0.05	8.43	0.25	0.10	0.25	24.88	6.35
MISSING VALUES	9	2	2	7	2	2	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: GERALDTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	98.0	2683	30.50	7.20	3.60	0.42	0.27	0.51	1.820
MINIMUM	11.1	126	5.10	4.56	0.30	0.06	0.03	0.01	0.000
ARITH. MEAN	48.2	1039	10.74	5.33	1.09	0.23	0.14	0.12	0.428
ARITH. STD. DEV.	25.0	854	6.30	0.79	0.82	0.09	0.07	0.13	0.535
GEOM. MEAN	41.6	705	9.53	5.28	0.89	0.21	0.12	0.08	0.283
1ST QUARTILE	29.6	279	6.00	4.75	0.70	0.19	0.10	0.04	0.080
2ND QUARTILE	42.0	838	10.00	4.96	0.85	0.20	0.12	0.07	0.190
3RD QUARTILE	63.0	1267	11.50	5.61	1.15	0.28	0.22	0.17	0.390
VOL. WGT. MEAN	.	1385	10.91	.	1.21	0.22	0.14	0.11	0.591
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13	13
MAXIMUM	0.080	0.220	0.425	3.450	0.170	3.40	2.40	4.60	18.71
MINIMUM	0.005	0.000	0.000	0.000	0.000	0.26	0.00	1.40	5.10
ARITH. MEAN	0.030	0.054	0.103	0.445	0.031	1.44	0.33	2.14	10.62
ARITH. STD. DEV.	0.020	0.077	0.115	0.905	0.059	0.80	0.65	0.97	5.24
GEOM. MEAN	0.024	0.076	0.083	0.228	0.119	1.21	0.48	1.98	9.45
1ST QUARTILE	0.015	0.005	0.030	0.028	0.003	0.72	0.00	1.50	5.62
2ND QUARTILE	0.020	0.020	0.070	0.144	0.000	1.55	0.11	1.80	8.65
3RD QUARTILE	0.045	0.040	0.140	0.276	0.027	1.80	0.13	2.30	18.34
VOL. WGT. MEAN	0.033	0.095	0.093	0.707	0.060	1.62	0.40	2.21	9.68
MISSING VALUES	0	0	0	0	0	1	1	4	6

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	0.83	0.21	64.00	0.49	0.44	0.35	49.30	27.54
MINIMUM	0.04	0.01	2.40	0.16	0.00	0.00	14.70	0.06
ARITH. MEAN	0.44	0.08	14.63	0.28	0.11	0.09	29.82	10.66
ARITH. STD. DEV.	0.25	0.06	16.69	0.11	0.13	0.12	9.34	8.81
GEOM. MEAN	0.33	0.06	8.98	0.26	0.34	0.51	28.36	4.69
1ST QUARTILE	0.22	0.03	3.00	0.21	0.00	0.00	22.70	2.45
2ND QUARTILE	0.43	0.06	10.00	0.23	0.09	0.00	29.70	10.96
3RD QUARTILE	0.72	0.12	13.00	0.36	0.15	0.17	34.50	17.78
VOL. WGT. MEAN	0.43	0.07	11.62	0.25	0.18	0.21	27.31	7.67
MISSING VALUES	6	1	1	7	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: SUTTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	9	9	9	9	9	9	9	9	9
MAXIMUM	111.9	5219	38.00	4.41	4.75	0.65	0.25	0.16	0.540
MINIMUM	60.8	1667	22.00	4.09	1.45	0.32	0.06	0.03	0.250
ARITH. MEAN	83.7	2771	27.50	4.29	2.53	0.45	0.12	0.09	0.392
ARITH. STD. DEV.	15.7	1028	5.61	0.10	0.98	0.11	0.05	0.03	0.112
GEOM. MEAN	82.2	2612	26.96	4.29	2.36	0.43	0.11	0.08	0.375
1ST QUARTILE	71.0	2099	22.50	4.21	1.80	0.34	0.10	0.07	0.260
2ND QUARTILE	79.1	2673	25.50	4.33	2.40	0.46	0.10	0.08	0.410
3RD QUARTILE	89.4	2867	31.00	4.38	2.75	0.50	0.13	0.09	0.490
VOL. WGT. MEAN	.	2911	26.81	.	2.43	0.44	0.12	0.08	0.388
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	9	9	9	9	9	9	9	9	9
MAXIMUM	0.040	0.055	0.115	0.468	0.014	5.00	0.38	37.00	18.00
MINIMUM	0.010	0.010	0.000	0.210	0.000	1.40	0.00	1.20	5.40
ARITH. MEAN	0.019	0.023	0.036	0.315	0.006	2.16	0.19	9.06	9.88
ARITH. STD. DEV.	0.009	0.013	0.035	0.090	0.004	1.11	0.09	13.98	4.47
GEOM. MEAN	0.017	0.020	0.131	0.302	0.011	1.96	0.25	3.57	8.97
1ST QUARTILE	0.010	0.015	0.000	0.224	0.004	1.40	0.17	2.10	5.78
2ND QUARTILE	0.020	0.020	0.035	0.334	0.005	1.60	0.19	2.30	8.55
3RD QUARTILE	0.020	0.025	0.045	0.388	0.007	2.30	0.20	2.70	13.00
VOL. WGT. MEAN	0.019	0.022	0.051	0.309	0.006	2.11	0.21	7.48	9.68
MISSING VALUES	0	0	0	0	0	0	0	4	3

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	9	9	9	9	9	9	9	9
MAXIMUM	1.60	0.65	15.00	1.10	0.11	0.21	108.00	81.28
MINIMUM	0.56	0.04	5.20	0.12	0.00	0.00	48.10	38.90
ARITH. MEAN	1.09	0.30	9.99	0.58	0.02	0.07	70.69	52.43
ARITH. STD. DEV.	0.30	0.17	3.65	0.40	0.04	0.08	18.96	13.38
GEOM. MEAN	1.04	0.24	9.30	0.41	0.58	0.45	68.30	50.89
1ST QUARTILE	0.86	0.22	7.20	0.12	0.00	0.00	55.10	41.69
2ND QUARTILE	1.05	0.27	9.10	0.52	0.00	0.00	71.20	46.77
3RD QUARTILE	1.30	0.40	14.00	1.10	0.00	0.15	78.60	61.66
VOL. WGT. MEAN	1.06	0.30	9.81	0.52	0.09	0.16	68.38	51.00
MISSING VALUES	1	0	0	6	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

STATION: WOLF RIDGE MIC TYPE A SITE NO.1

		EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	:	2	2	2	2	2	2	2	2	2
MAXIMUM	:	50.1	1142	43.00	4.39	3.95	1.12	0.34	0.19	1.390
MINIMUM	:	32.1	684	22.00	4.27	1.45	0.60	0.12	0.05	0.290
ARITH. MEAN	:	41.1	913	32.50	4.33	2.70	0.86	0.23	0.12	0.840
ARITH. STD. DEV.	:	9.0	229	10.50	0.06	1.25	0.26	0.11	0.07	0.550
GEOM. MEAN	:	40.1	884	30.76	4.33	2.39	0.82	0.20	0.10	0.635
1ST QUARTILE	:	32.1	684	22.00	4.27	1.45	0.60	0.12	0.05	0.290
2ND QUARTILE	:	41.1	913	32.50	4.33	2.70	0.86	0.23	0.12	0.840
3RD QUARTILE	:	50.1	1142	43.00	4.39	3.95	1.12	0.34	0.19	1.390
VOL. WGT. MEAN	:	.	963	30.20	.	2.43	0.80	0.21	0.10	0.720
MISSING VALUES	:	0	0	0	0	0	0	0	0	0

		MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	:	2	2	2	2	2	2	2	2	2
MAXIMUM	:	0.050	0.050	0.085	1.310	0.004	8.00	0.77	11.00	63.00
MINIMUM	:	0.015	0.020	0.035	0.290	0.000	1.80	0.14	4.80	7.50
ARITH. MEAN	:	0.033	0.035	0.060	0.800	0.002	4.90	0.46	7.90	35.25
ARITH. STD. DEV.	:	0.018	0.015	0.025	0.510	0.002	3.10	0.32	3.10	27.75
GEOM. MEAN	:	0.027	0.032	0.055	0.616	0.063	3.79	0.33	7.27	21.74
1ST QUARTILE	:	0.015	0.020	0.035	0.290	0.000	1.80	0.14	4.80	7.50
2ND QUARTILE	:	0.033	0.035	0.060	0.800	0.002	4.90	0.46	7.90	35.25
3RD QUARTILE	:	0.050	0.050	0.085	1.310	0.004	8.00	0.77	11.00	63.00
VOL. WGT. MEAN	:	0.029	0.032	0.055	0.688	0.004	4.22	0.39	7.22	29.17
MISSING VALUES	:	0	0	0	0	0	0	0	0	0

		LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	:	2	2	2	2	2	2	2	2
MAXIMUM	:	3.90	0.62	46.00	1.90	0.37	0.67	102.00	53.70
MINIMUM	:	1.10	0.11	6.50	1.90	0.12	0.30	71.50	40.74
ARITH. MEAN	:	2.50	0.37	26.25	1.90	0.25	0.49	86.75	47.22
ARITH. STD. DEV.	:	1.40	0.26	19.75	0.00	0.13	0.19	15.25	6.48
GEOM. MEAN	:	2.07	0.26	17.29	1.90	0.21	0.45	85.40	46.77
1ST QUARTILE	:	1.10	0.11	6.50	1.90	0.12	0.30	71.50	40.74
2ND QUARTILE	:	2.50	0.37	26.25	1.90	0.25	0.49	86.75	47.22
3RD QUARTILE	:	3.90	0.62	46.00	1.90	0.37	0.67	102.00	53.70
VOL. WGT. MEAN	:	2.19	0.31	21.93	1.90	0.22	0.44	83.41	45.80
MISSING VALUES	:	0	0	0	1	0	0	0	0

PART IV

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY REGION

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

REGION: CE

EQUIVALENT PREC. DEPTH MM		VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	58	58	58	58	58	58	58	58	58
MAXIMUM	139.0	4095	72.00	7.56	7.20	1.21	4.84	0.90	3.300
MINIMUM	3.0	0	10.50	3.91	1.00	0.19	0.05	0.02	0.020
ARITH. MEAN	66.5	1707	30.82	4.39	3.02	0.59	0.36	0.17	0.497
ARITH. STD. DEV.	26.5	863	13.53	0.50	1.40	0.23	0.65	0.14	0.458
GEOM. MEAN	59.8	1181	28.24	4.37	2.73	0.54	0.23	0.13	0.381
1ST QUARTILE	48.0	1142	21.50	4.17	2.00	0.43	0.13	0.08	0.290
2ND QUARTILE	60.8	1591	26.50	4.32	2.78	0.56	0.24	0.14	0.400
3RD QUARTILE	86.0	2271	35.00	4.43	3.55	0.67	0.37	0.20	0.550
VOL. WGT. MEAN	.	2047	29.09	.	2.80	0.55	0.32	0.15	0.462
MISSING VALUES	0	0	7	6	6	6	6	6	5

MAGNESIUM MG/L		POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	58	58	58	58	58	58	58	58	58
MAXIMUM	0.160	0.755	0.405	4.050	0.420	8.30	4.20	122.55	170.43
MINIMUM	0.000	0.000	0.000	0.064	0.000	0.33	0.00	1.90	4.30
ARITH. MEAN	0.046	0.056	0.064	0.484	0.016	2.69	0.38	10.24	31.79
ARITH. STD. DEV.	0.035	0.131	0.072	0.542	0.058	1.88	0.62	20.64	41.48
GEOM. MEAN	0.043	0.033	0.055	0.376	0.013	2.14	0.47	5.83	17.55
1ST QUARTILE	0.020	0.020	0.020	0.290	0.002	1.30	0.00	3.30	7.50
2ND QUARTILE	0.035	0.025	0.038	0.368	0.004	2.10	0.28	5.60	14.00
3RD QUARTILE	0.055	0.035	0.075	0.512	0.007	3.30	0.39	7.50	26.00
VOL. WGT. MEAN	0.043	0.046	0.060	0.450	0.017	2.36	0.43	7.97	27.08
MISSING VALUES	6	6	6	5	5	7	7	16	29

LEAD UG/L		VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	58	58	58	58	58	58	58	58
MAXIMUM	4.60	0.87	56.00	3.30	45.00	0.67	919.00	123.03
MINIMUM	0.03	0.00	3.00	0.15	0.00	0.00	10.70	0.03
ARITH. MEAN	1.50	0.20	13.53	1.18	1.00	0.16	93.24	51.91
ARITH. STD. DEV.	1.10	0.15	11.07	0.78	6.22	0.15	119.52	25.80
GEOM. MEAN	1.02	0.19	10.67	0.93	0.23	0.37	73.49	40.56
1ST QUARTILE	0.59	0.12	6.60	0.61	0.06	0.00	59.40	35.48
2ND QUARTILE	1.40	0.16	9.80	0.87	0.10	0.16	74.40	47.91
3RD QUARTILE	1.90	0.27	15.00	1.80	0.15	0.25	97.20	66.07
VOL. WGT. MEAN	1.33	0.20	11.78	1.09	0.75	0.23	100.25	49.51
MISSING VALUES	15	7	8	24	7	7	6	6

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF CONCENTRATION

REGION: NE

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	87	87	87	87	87	87	87	87	87
MAXIMUM	263.0	5450	52.00	7.85	7.15	0.88	7.67	1.43	1.180
MINIMUM	3.0	73	2.00	4.03	0.70	0.07	0.04	0.00	0.130
ARITH. MEAN	81.4	1962	24.08	4.54	2.54	0.42	0.28	0.14	0.437
ARITH. STD. DEV.	47.9	1176	10.58	0.54	1.23	0.18	0.82	0.21	0.211
GEOM. MEAN	67.3	1535	21.42	4.51	2.27	0.37	0.16	0.10	0.389
1ST QUARTILE	49.0	1054	16.50	4.30	1.60	0.28	0.10	0.06	0.270
2ND QUARTILE	69.0	1713	24.00	4.39	2.30	0.42	0.15	0.10	0.410
3RD QUARTILE	112.0	2838	30.00	4.56	3.15	0.53	0.23	0.13	0.530
VOL. WGT. MEAN	.	2517	22.68	.	2.38	0.41	0.19	0.14	0.412
MISSING VALUES	0	0	0	2	0	0	1	0	1

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	87	87	87	87	87	87	87	87	87
MAXIMUM	1.285	0.295	0.895	0.952	0.105	17.00	11.00	337.22	239.52
MINIMUM	0.010	0.010	0.000	0.068	0.000	0.67	0.00	1.70	4.90
ARITH. MEAN	0.054	0.038	0.073	0.377	0.007	2.81	1.31	10.49	28.49
ARITH. STD. DEV.	0.137	0.039	0.133	0.184	0.012	2.58	2.11	40.12	45.87
GEOM. MEAN	0.032	0.030	0.056	0.330	0.019	2.19	0.75	4.57	14.63
1ST QUARTILE	0.020	0.020	0.025	0.212	0.002	1.40	0.15	2.90	6.90
2ND QUARTILE	0.030	0.025	0.038	0.344	0.004	1.90	0.34	3.80	11.00
3RD QUARTILE	0.045	0.040	0.070	0.502	0.008	3.20	1.80	5.50	22.00
VOL. WGT. MEAN	0.040	0.039	0.079	0.357	0.007	2.84	1.48	10.93	27.85
MISSING VALUES	1	1	1	0	1	0	0	18	42

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	87	87	87	87	87	87	87	87
MAXIMUM	29.00	0.31	48.00	18.00	28.00	2.20	130.00	93.33
MINIMUM	0.17	0.02	1.40	0.16	0.00	0.00	4.03	0.01
ARITH. MEAN	2.21	0.13	12.58	3.15	0.68	0.26	61.35	39.63
ARITH. STD. DEV.	3.65	0.07	10.25	3.78	3.27	0.39	22.33	19.88
GEOM. MEAN	1.32	0.11	9.24	1.67	0.36	0.49	56.27	29.08
1ST QUARTILE	0.76	0.08	4.80	0.71	0.00	0.00	49.50	27.54
2ND QUARTILE	1.30	0.11	9.20	1.40	0.10	0.15	59.40	40.74
3RD QUARTILE	2.50	0.16	17.00	4.40	0.28	0.33	75.80	50.12
VOL. WGT. MEAN	2.26	0.12	12.17	2.93	1.21	0.42	60.70	38.67
MISSING VALUES	15	0	0	20	0	0	2	2

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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REGION: NW

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	68	68	68	68	68	68	68	68	68
MAXIMUM	145.0	4080	31.00	7.20	3.75	1.15	0.54	0.51	2.300
MINIMUM	7.1	126	3.00	4.28	0.15	0.06	0.00	0.01	0.000
ARITH. MEAN	48.8	1184	9.80	5.25	1.13	0.27	0.17	0.09	0.395
ARITH. STD. DEV.	29.0	860	5.63	0.62	0.72	0.15	0.10	0.09	0.408
GEOM. MEAN	40.7	887	8.70	5.22	0.94	0.24	0.15	0.07	0.296
1ST QUARTILE	25.0	525	6.00	4.80	0.70	0.19	0.09	0.04	0.160
2ND QUARTILE	44.1	922	8.50	5.01	0.93	0.26	0.17	0.07	0.280
3RD QUARTILE	62.0	1608	11.00	5.61	1.35	0.30	0.22	0.10	0.490
VOL. WGT. MEAN	.	1649	9.00	.	1.08	0.25	0.16	0.07	0.400
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	68	68	68	68	68	68	68	68	68
MAXIMUM	0.100	0.265	0.425	3.450	0.170	6.30	2.40	9.30	526.92
MINIMUM	0.000	0.000	0.000	0.000	0.000	0.07	0.00	0.30	5.10
ARITH. MEAN	0.033	0.041	0.070	0.314	0.016	2.62	0.21	2.37	28.78
ARITH. STD. DEV.	0.022	0.052	0.074	0.451	0.030	1.58	0.35	1.90	92.94
GEOM. MEAN	0.031	0.050	0.065	0.198	0.030	2.05	0.39	1.82	11.24
1ST QUARTILE	0.015	0.015	0.025	0.106	0.002	1.30	0.00	1.20	6.80
2ND QUARTILE	0.030	0.025	0.048	0.237	0.005	2.40	0.14	1.60	9.11
3RD QUARTILE	0.045	0.045	0.080	0.358	0.017	3.60	0.24	3.50	15.00
VOL. WGT. MEAN	0.031	0.049	0.058	0.354	0.020	2.46	0.28	2.16	18.53
MISSING VALUES	0	0	0	0	0	4	4	21	38

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	68	68	68	68	68	68	68	68
MAXIMUM	1.60	0.31	64.00	5.30	0.44	0.52	163.00	52.48
MINIMUM	0.04	0.00	1.10	0.12	0.00	0.00	14.70	0.06
ARITH. MEAN	0.43	0.08	10.46	0.43	0.07	0.11	31.69	10.61
ARITH. STD. DEV.	0.40	0.06	11.63	0.84	0.10	0.14	19.54	9.56
GEOM. MEAN	0.27	0.07	6.66	0.28	0.38	0.50	28.67	5.63
1ST QUARTILE	0.13	0.03	3.30	0.16	0.00	0.00	21.00	2.45
2ND QUARTILE	0.32	0.07	5.15	0.26	0.00	0.00	28.60	9.78
3RD QUARTILE	0.51	0.11	12.00	0.38	0.11	0.20	34.50	14.45
VOL. WGT. MEAN	0.35	0.07	7.75	0.31	0.13	0.24	29.92	8.70
MISSING VALUES	30	4	6	32	4	4	0	0

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REGION: SE

		EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	:	43	43	43	43	43	43	43	43	43
MAXIMUM	:	125.0	3266	79.50	6.69	11.10	1.34	2.30	1.19	1.900
MINIMUM	:	24.0	0	14.50	3.81	0.90	0.22	0.04	0.03	0.110
ARITH. MEAN	:	63.3	1525	31.42	4.36	3.18	0.57	0.24	0.16	0.433
ARITH. STD. DEV.	:	22.9	867	14.42	0.45	1.95	0.24	0.36	0.20	0.314
GEOM. MEAN	:	59.0	738	28.70	4.34	2.74	0.52	0.17	0.12	0.356
1ST QUARTILE	:	46.0	1050	21.50	4.14	1.90	0.36	0.10	0.08	0.250
2ND QUARTILE	:	63.0	1491	26.00	4.31	2.80	0.54	0.18	0.11	0.375
3RD QUARTILE	:	80.0	2247	38.00	4.42	3.40	0.66	0.24	0.15	0.530
VOL. WGT. MEAN	:	.	1858	30.16	.	2.94	0.55	0.22	0.16	0.392
MISSING VALUES	:	0	0	6	6	6	6	7	6	7

		MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	:	43	43	43	43	43	43	43	43	43
MAXIMUM	:	0.745	0.195	0.320	1.780	0.126	17.00	0.84	25.00	47.55
MINIMUM	:	0.010	0.005	0.015	0.098	0.000	0.48	0.00	0.94	4.30
ARITH. MEAN	:	0.054	0.036	0.058	0.413	0.013	2.77	0.26	7.42	14.23
ARITH. STD. DEV.	:	0.119	0.041	0.055	0.297	0.029	3.06	0.21	6.14	9.93
GEOM. MEAN	:	0.032	0.024	0.044	0.340	0.045	2.02	0.39	5.60	11.73
1ST QUARTILE	:	0.020	0.015	0.030	0.242	0.000	1.20	0.11	3.50	7.00
2ND QUARTILE	:	0.030	0.025	0.038	0.350	0.003	1.80	0.27	4.70	11.05
3RD QUARTILE	:	0.045	0.035	0.060	0.498	0.007	2.80	0.39	7.90	19.00
VOL. WGT. MEAN	:	0.047	0.031	0.053	0.373	0.016	2.51	0.33	6.93	13.48
MISSING VALUES	:	7	7	7	6	6	8	8	17	20

		LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	:	43	43	43	43	43	43	43	43
MAXIMUM	:	2.80	0.63	44.00	8.13	2.40	0.96	815.00	154.88
MINIMUM	:	0.07	0.08	3.30	0.13	0.00	0.00	20.30	0.20
ARITH. MEAN	:	1.37	0.21	15.68	1.13	0.29	0.14	116.89	56.47
ARITH. STD. DEV.	:	0.64	0.13	8.92	1.81	0.53	0.20	156.63	31.28
GEOM. MEAN	:	1.17	0.18	13.13	0.58	0.42	0.49	83.58	43.98
1ST QUARTILE	:	0.84	0.11	8.70	0.25	0.00	0.00	61.80	38.02
2ND QUARTILE	:	1.30	0.17	15.00	0.61	0.08	0.00	71.50	48.98
3RD QUARTILE	:	1.90	0.27	19.00	0.99	0.27	0.19	101.00	72.44
VOL. WGT. MEAN	:	1.35	0.21	14.85	1.10	0.45	0.26	124.78	54.44
MISSING VALUES	:	12	8	9	24	8	8	6	6

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REGION: SW

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB. PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	89	89	89	89	89	89	89	89	89
MAXIMUM	213.0	4784	69.00	5.24	10.15	1.86	1.50	1.00	0.980
MINIMUM	23.0	96	10.00	4.08	1.15	0.25	0.00	0.06	0.070
ARITH. MEAN	80.5	1963	28.93	4.37	3.16	0.56	0.32	0.19	0.487
ARITH. STD. DEV.	33.0	986	10.23	0.18	1.23	0.23	0.25	0.13	0.215
GEOM. MEAN	74.2	1677	27.27	4.37	2.97	0.53	0.28	0.16	0.440
1ST QUARTILE	59.7	1427	23.00	4.27	2.40	0.41	0.19	0.11	0.320
2ND QUARTILE	75.0	1769	28.50	4.33	3.08	0.50	0.25	0.15	0.455
3RD QUARTILE	94.4	2507	32.50	4.47	3.65	0.64	0.40	0.24	0.580
VOL. WGT. MEAN	.	2264	27.55	.	3.08	0.53	0.31	0.18	0.470
MISSING VALUES	0	0	1	3	1	1	3	1	3

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	89	89	89	89	89	89	89	89	89
MAXIMUM	0.400	0.295	0.420	3.160	0.120	51.00	100.00	211.40	128.63
MINIMUM	0.000	0.000	0.000	0.078	0.000	0.56	0.00	2.00	4.50
ARITH. MEAN	0.068	0.046	0.068	0.467	0.011	3.78	1.57	13.34	17.36
ARITH. STD. DEV.	0.057	0.055	0.064	0.350	0.019	5.93	10.66	30.30	23.06
GEOM. MEAN	0.057	0.038	0.071	0.400	0.010	2.53	0.46	7.15	11.53
1ST QUARTILE	0.035	0.020	0.030	0.286	0.003	1.40	0.13	4.10	7.20
2ND QUARTILE	0.050	0.025	0.050	0.405	0.005	2.40	0.22	6.35	9.15
3RD QUARTILE	0.075	0.045	0.090	0.552	0.012	3.60	0.39	9.20	13.00
VOL. WGT. MEAN	0.063	0.047	0.068	0.434	0.012	3.20	1.11	10.95	17.90
MISSING VALUES	3	3	3	1	2	2	2	25	39

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	89	89	89	89	89	89	89	89
MAXIMUM	51.00	50.00	100.00	51.06	100.00	100.00	112.00	83.18
MINIMUM	0.10	0.00	3.70	0.16	0.00	0.00	13.80	5.75
ARITH. MEAN	2.18	0.78	19.36	2.18	1.47	1.28	70.90	45.98
ARITH. STD. DEV.	5.86	5.31	18.09	7.13	10.68	10.65	19.60	16.24
GEOM. MEAN	1.24	0.18	15.10	0.81	0.27	0.41	67.87	42.66
1ST QUARTILE	0.82	0.10	10.00	0.45	0.06	0.00	56.80	33.88
2ND QUARTILE	1.20	0.17	15.00	0.65	0.11	0.13	67.50	46.77
3RD QUARTILE	1.70	0.27	22.00	1.00	0.20	0.24	83.60	53.70
VOL. WGT. MEAN	1.67	0.40	17.45	1.42	1.05	0.94	70.36	45.41
MISSING VALUES	14	2	10	36	2	2	3	3

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF CONCENTRATION

REGION: Z

	EQUIVALENT PREC. DEPTH MM	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL MG/L
# OF SAMPLES	11	11	11	11	11	11	11	11	11
MAXIMUM	111.9	5219	43.00	4.41	4.75	1.12	0.34	0.19	1.390
MINIMUM	32.1	684	22.00	4.09	1.45	0.32	0.06	0.03	0.250
ARITH. MEAN	75.9	2433	28.41	4.30	2.56	0.52	0.14	0.09	0.474
ARITH. STD. DEV.	22.0	1178	7.04	0.10	1.03	0.22	0.08	0.04	0.308
GEOM. MEAN	72.2	2145	27.61	4.30	2.37	0.49	0.12	0.08	0.413
1ST QUARTILE	60.8	1667	22.00	4.21	1.60	0.34	0.10	0.07	0.260
2ND QUARTILE	77.4	2244	25.50	4.33	2.40	0.49	0.12	0.08	0.410
3RD QUARTILE	89.4	2867	34.50	4.39	3.35	0.60	0.13	0.11	0.520
VOL. WGT. MEAN	.	2719	27.14	.	2.43	0.48	0.13	0.08	0.421
MISSING VALUES	0	0	0	0	0	0	0	0	0

	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L
# OF SAMPLES	11	11	11	11	11	11	11	11	11
MAXIMUM	0.050	0.055	0.115	1.310	0.014	8.00	0.77	37.00	63.00
MINIMUM	0.010	0.010	0.000	0.210	0.000	1.40	0.00	1.20	5.40
ARITH. MEAN	0.021	0.025	0.040	0.403	0.005	2.65	0.24	8.73	16.22
ARITH. STD. DEV.	0.012	0.014	0.034	0.298	0.004	1.97	0.19	11.94	18.12
GEOM. MEAN	0.019	0.022	0.112	0.344	0.015	2.21	0.26	4.37	11.19
1ST QUARTILE	0.010	0.015	0.000	0.224	0.004	1.40	0.16	2.10	5.78
2ND QUARTILE	0.020	0.020	0.035	0.334	0.005	1.80	0.19	2.70	8.70
3RD QUARTILE	0.025	0.030	0.060	0.390	0.007	2.70	0.26	11.00	13.00
VOL. WGT. MEAN	0.020	0.023	0.052	0.346	0.006	2.32	0.23	7.44	12.53
MISSING VALUES	0	0	0	0	0	0	0	4	3

	LEAD UG/L	VANADIUM UG/L	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L	ARSENIC UG/L	ACIDITY GRAN UG/L	FREEH+ LAB UG/L
# OF SAMPLES	11	11	11	11	11	11	11	11
MAXIMUM	3.90	0.65	46.00	1.90	0.37	0.67	108.00	81.28
MINIMUM	0.56	0.04	5.20	0.12	0.00	0.00	48.10	38.90
ARITH. MEAN	1.37	0.31	12.95	0.91	0.06	0.15	73.61	51.48
ARITH. STD. DEV.	0.88	0.19	11.01	0.67	0.11	0.19	19.36	12.58
GEOM. MEAN	1.20	0.25	10.41	0.60	0.48	0.45	71.13	50.12
1ST QUARTILE	0.97	0.17	6.50	0.12	0.00	0.00	55.10	40.74
2ND QUARTILE	1.10	0.27	9.10	0.81	0.00	0.14	71.50	46.77
3RD QUARTILE	1.30	0.45	15.00	1.10	0.11	0.21	92.30	61.66
VOL. WGT. MEAN	1.19	0.30	11.00	0.67	0.13	0.22	69.86	50.49
MISSING VALUES	1	0	0	7	0	0	0	0

PART V

SUMMARY STATISTICS OF PRECIPITATION DEPOSITION BY STATION

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: COLCHESTER MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
13	13	13	13	13	13	13	13	13
MAXIMUM	138.0	538.20	67.62	45.54	33.63	70.380	11.040	27.720
MINIMUM	23.0	98.75	17.38	0.00	5.70	13.430	1.778	0.000
ARITH. MEAN	77.7	238.09	37.85	20.38	14.86	33.172	4.889	5.504
ARITH. STD. DEV.	33.2	127.98	14.57	11.59	7.06	16.903	2.591	8.177
GEOM. MEAN	70.0	210.58	35.12	15.64	13.35	29.315	4.285	2.808
1ST QUARTILE	57.0	146.25	26.08	11.40	11.46	18.720	2.832	1.170
2ND QUARTILE	63.0	190.95	33.35	20.70	13.50	29.070	4.320	2.552
3RD QUARTILE	96.0	283.50	45.73	26.73	17.94	35.280	5.985	3.776
VOL. WGT. MEAN	.	238.09	37.85	20.86	14.86	33.172	4.889	5.633
MISSING VALUES	0	0	0	0	0	0	0	0

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
13	13	13	13	13	13	13	13	13
MAXIMUM	18.158	65.688	6.633	348.00	28.71	1102.90	5947.20	217.12
MINIMUM	0.000	12.701	0.000	62.70	0.00	169.85	279.30	27.36
ARITH. MEAN	4.602	28.466	0.961	193.91	14.37	556.48	1488.20	119.12
ARITH. STD. DEV.	4.535	15.574	1.671	95.63	9.75	294.85	1767.71	60.36
GEOM. MEAN	3.191	24.892	0.566	167.49	9.02	475.79	829.11	100.56
1ST QUARTILE	2.205	16.263	0.293	108.00	8.51	357.21	356.85	57.91
2ND QUARTILE	3.555	20.930	0.404	211.20	14.80	414.00	576.00	122.45
3RD QUARTILE	4.950	35.154	0.840	242.10	20.79	772.80	2079.00	171.00
VOL. WGT. MEAN	5.085	28.466	1.025	193.91	18.21	530.19	1426.67	114.78
MISSING VALUES	0	0	0	0	0	4	4	2

# OF SAMPLES	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	33.98	8968.00	141.60	78.72	25.49	10833.00	7984.93
MINIMUM	3.99	474.00	12.87	0.00	0.00	2415.00	1785.37
ARITH. MEAN	12.80	1875.13	79.87	16.41	7.45	5661.99	3920.70
ARITH. STD. DEV.	7.57	2272.32	43.19	22.17	8.34	2472.37	1768.96
GEOM. MEAN	10.97	1317.14	64.69	8.48	3.83	5186.49	3572.19
1ST QUARTILE	6.72	1056.00	51.30	6.27	0.00	4236.00	2619.09
2ND QUARTILE	11.52	1277.75	66.47	8.50	3.91	5352.30	3514.59
3RD QUARTILE	16.44	1620.00	122.82	10.21	15.12	6084.00	4408.01
VOL. WGT. MEAN	12.80	1806.77	76.38	21.35	14.70	5661.99	3920.70
MISSING VALUES	0	2	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: MERLIN MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	174.0	573.40	70.76	71.55	50.31	70.760	14.534	20.683
MINIMUM	30.0	132.09	19.43	10.27	6.60	13.209	1.950	1.358
ARITH. MEAN	81.8	256.33	40.39	25.78	15.80	32.903	5.147	5.658
ARITH. STD. DEV.	35.6	125.91	15.87	15.79	11.00	15.557	3.221	6.347
GEOM. MEAN	74.9	232.08	37.45	22.18	13.61	29.792	4.418	3.655
1ST QUARTILE	58.0	161.69	25.52	11.70	9.36	21.090	2.444	1.800
2ND QUARTILE	77.7	223.89	37.97	25.95	13.92	28.020	4.765	2.955
3RD QUARTILE	92.0	276.50	43.45	29.28	14.66	38.012	5.980	3.660
VOL. WGT. MEAN		250.27	39.44	25.17	15.42	32.125	5.026	5.524
MISSING VALUES	0	1	1	1	1	1	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	35.776	63.928	1.342	407.00	76.02	1453.40	1380.00	190.06
MINIMUM	0.000	9.946	0.109	70.59	0.00	181.70	407.25	41.96
ARITH. MEAN	6.508	28.433	0.532	193.64	17.84	512.28	786.73	107.23
ARITH. STD. DEV.	9.106	14.854	0.387	96.78	22.06	373.82	304.77	49.94
GEOM. MEAN	4.087	25.211	0.400	167.37	6.57	409.74	733.35	95.24
1ST QUARTILE	2.300	18.137	0.234	79.00	0.00	202.02	625.67	59.76
2ND QUARTILE	3.285	24.958	0.402	211.74	14.56	387.13	696.23	103.70
3RD QUARTILE	6.245	28.124	0.696	239.20	20.24	644.00	915.00	140.94
VOL. WGT. MEAN	7.231	27.760	0.519	189.06	33.53	480.37	808.75	93.72
MISSING VALUES	1	1	1	1	1	3	7	4

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	13	13	13	13	13	13	13
MAXIMUM	19.68	2571.40	234.78	62.64	20.39	13176.00	8248.21
MINIMUM	3.30	559.44	17.48	0.00	0.00	1542.84	643.34
ARITH. MEAN	11.36	1142.17	62.97	14.76	7.16	6008.78	3913.35
ARITH. STD. DEV.	5.57	533.49	67.17	16.44	7.61	3311.33	2168.34
GEOM. MEAN	9.74	1043.97	43.92	8.47	3.72	5082.46	3158.55
1ST QUARTILE	4.74	705.90	26.06	4.88	0.00	3707.00	2401.16
2ND QUARTILE	11.81	948.00	32.31	10.78	4.68	5564.85	3729.55
3RD QUARTILE	14.64	1342.00	61.00	14.10	14.72	6653.40	4699.96
VOL. WGT. MEAN	11.09	1081.39	55.69	17.19	14.71	5866.64	3820.77
MISSING VALUES	1	2	5	1	1	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: PORT STANLEY MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
13	13	13	13	13	13	13	13	13	13	13	13	13
MAXIMUM	213.0	724.20	86.478	1.491	451.00	73.01	1442.00	1302.00	276.90	102.240	7.450	4.307
MINIMUM	55.0	126.40	12.893	0.000	121.80	0.00	322.40	492.19	39.68	17.696	1.436	1.305
ARITH. MEAN	95.1	286.59	33.598	0.423	214.24	22.55	595.88	702.32	125.69	37.824	4.007	2.518
ARITH. STD. DEV.	42.3	159.15	19.606	0.396	104.60	22.63	388.46	248.86	63.27	22.805	1.828	0.997
GEOM. MEAN	87.9	254.28	29.131	0.548	194.90	11.17	504.51	667.82	109.90	32.888	3.551	2.335
1ST QUARTILE	63.0	181.83	19.806	0.220	151.68	9.92	326.15	539.43	66.00	20.460	2.610	1.760
2ND QUARTILE	88.0	243.10	28.536	0.297	167.40	15.03	384.50	636.48	123.81	30.900	4.400	2.210
3RD QUARTILE	103.0	298.70	38.682	0.618	238.68	27.28	555.06	857.23	132.72	40.700	5.150	3.025
VOL. WGT. MEAN	.	286.59	33.598	0.527	214.24	28.33	613.60	857.23	127.35	37.824	4.007	2.518
MISSING VALUES	0	0	0	0	0	0	5	4	1	0	0	0

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13	13	13	13	13	13
MAXIMUM	10.120	86.478	1.491	451.00	73.01	1442.00	1302.00	276.90	102.240	7.450	4.307	12542.37
MINIMUM	0.000	12.893	0.000	121.80	0.00	322.40	492.19	39.68	17.696	1.436	1.305	2110.97
ARITH. MEAN	5.057	33.598	0.423	214.24	22.55	595.88	702.32	125.69	37.824	4.007	2.518	5176.96
ARITH. STD. DEV.	3.299	19.606	0.396	104.60	22.63	388.46	248.86	63.27	22.805	1.828	0.997	2555.51
GEOM. MEAN	4.046	29.131	0.548	194.90	11.17	504.51	667.82	109.90	32.888	3.551	2.335	4696.47
1ST QUARTILE	2.205	19.806	0.220	151.68	9.92	326.15	539.43	66.00	20.460	2.610	1.760	3805.07
2ND QUARTILE	5.325	28.536	0.297	167.40	15.03	384.50	636.48	123.81	30.900	4.400	2.210	4672.18
3RD QUARTILE	8.216	38.682	0.618	238.68	27.28	555.06	857.23	132.72	40.700	5.150	3.025	5264.93
VOL. WGT. MEAN	6.249	33.598	0.527	214.24	28.33	613.60	857.23	127.35	37.824	4.007	2.518	5176.96
MISSING VALUES	0	0	0	0	0	5	4	1	0	0	0	0

# OF SAMPLES	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	30.06	2678.00	123.60	195.70	31.95	18424.50	12542.37
MINIMUM	4.34	593.00	24.31	0.00	0.00	3773.04	2110.97
ARITH. MEAN	14.96	1471.29	73.54	29.79	10.89	7795.56	5176.96
ARITH. STD. DEV.	7.59	630.38	35.76	55.82	10.10	3803.36	2555.51
GEOM. MEAN	12.97	1336.24	63.70	8.15	5.62	7109.39	4696.47
1ST QUARTILE	9.27	957.00	40.70	4.15	0.00	5720.00	3805.07
2ND QUARTILE	14.08	1411.20	69.88	7.96	12.32	7056.00	4672.18
3RD QUARTILE	21.30	1925.00	112.89	14.90	16.60	8118.00	5264.93
VOL. WGT. MEAN	14.96	1490.72	71.24	36.78	17.14	7795.56	5176.96
MISSING VALUES	0	1	7	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: WILKESPORT MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	74.9	156.56	34.51	26.20	17.25	30.033	3.515	5.112
MINIMUM	27.5	61.88	17.60	5.77	8.99	9.075	0.825	0.688
ARITH. MEAN	55.4	115.25	25.61	15.99	11.96	20.526	2.170	2.900
ARITH. STD. DEV.	20.3	39.59	6.93	10.21	3.76	8.666	1.345	2.212
GEOM. MEAN	50.9	107.24	24.67	12.30	11.43	18.296	1.703	1.875
1ST QUARTILE	27.5	61.88	17.60	5.77	8.99	9.075	0.825	0.688
2ND QUARTILE	63.9	127.33	24.72	15.99	9.63	22.470	2.170	2.900
3RD QUARTILE	74.9	156.56	34.51	26.20	17.25	30.033	3.515	5.112
VOL. WGT. MEAN	.	115.25	25.61	19.39	11.96	20.526	2.632	3.517
MISSING VALUES	0	0	0	1	0	0	1	1

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	9.265	24.154	0.639	242.82	35.15	894.60	3322.80	146.97
MINIMUM	4.538	8.085	0.055	52.25	10.49	148.50	217.25	25.58
ARITH. MEAN	6.902	16.489	0.306	128.32	19.06	447.57	1770.03	84.98
ARITH. STD. DEV.	2.364	6.581	0.245	82.41	11.38	322.06	1552.78	49.59
GEOM. MEAN	6.484	14.984	0.199	104.47	16.21	341.43	849.63	67.66
1ST QUARTILE	4.538	8.085	0.055	52.25	10.49	148.50	217.25	25.58
2ND QUARTILE	6.902	17.227	0.225	89.88	11.55	299.60	1770.03	82.39
3RD QUARTILE	9.265	24.154	0.639	242.82	35.15	894.60	3322.80	146.97
VOL. WGT. MEAN	8.371	16.489	0.306	128.32	19.06	447.57	2147.01	84.98
MISSING VALUES	1	0	0	0	0	0	1	0

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREH+ LAB UG/M**2
# OF SAMPLES	3	3	3	3	3	3	3
MAXIMUM	18.53	2428.20	210.87	7.67	19.17	4057.65	2486.00
MINIMUM	8.80	577.50	33.71	2.48	0.00	2208.25	1476.84
ARITH. MEAN	13.85	1476.27	122.29	5.13	7.95	3132.95	1981.42
ARITH. STD. DEV.	3.98	756.48	88.58	2.12	8.16	924.70	504.58
GEOM. MEAN	13.24	1258.99	84.31	4.63	4.48	2993.38	1916.09
1ST QUARTILE	8.80	577.50	33.71	2.48	0.00	2208.25	1476.84
2ND QUARTILE	14.23	1423.10	122.29	5.24	4.68	3132.95	1981.42
3RD QUARTILE	18.53	2428.20	210.87	7.67	19.17	4057.65	2486.00
VOL. WGT. MEAN	13.85	1476.27	97.68	5.13	14.46	3800.22	2403.43
MISSING VALUES	0	0	1	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: ALVINSTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	
# OF SAMPLES	3	3	3	3	3	3	3	3	
MAXIMUM	68.8	184.44	50.88	48.97	19.08	31.164	9.222	2.064	
MINIMUM	62.5	90.63	19.38	5.00	4.38	13.750	0.938	0.625	
ARITH. MEAN	65.0	132.97	32.82	23.72	10.80	21.851	4.189	1.426	
ARITH. STD. DEV.	2.7	38.84	13.27	18.53	6.15	7.161	3.609	0.599	
GEOM. MEAN	64.9	127.44	30.30	16.15	9.07	20.680	2.751	1.271	
1ST QUARTILE	62.5	90.63	19.38	5.00	4.38	13.750	0.938	0.625	
2ND QUARTILE	63.6	123.84	28.21	17.20	8.94	20.640	2.408	1.590	
3RD QUARTILE	68.8	184.44	50.88	48.97	19.08	31.164	9.222	2.064	
VOL. WGT. MEAN	.	132.97	32.82	23.72	10.80	21.851	4.189	1.426	
MISSING VALUES	0	0	0	0	0	0	0	0	

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	
# OF SAMPLES	3	3	3	3	3	3	3	3	
MAXIMUM	7.314	33.835	0.445	184.44	23.53	454.08	381.60	76.32	
MINIMUM	2.188	12.375	0.125	35.63	8.94	168.75	381.60	22.50	
ARITH. MEAN	5.231	21.091	0.305	119.22	14.78	343.29	381.60	58.17	
ARITH. STD. DEV.	2.200	9.213	0.134	62.13	6.30	124.90	0.00	25.22	
GEOM. MEAN	4.627	19.260	0.268	96.70	13.57	314.78	381.60	50.65	
1ST QUARTILE	2.188	12.375	0.125	35.63	8.94	168.75	381.60	22.50	
2ND QUARTILE	6.192	17.062	0.344	137.60	11.88	407.04	381.60	75.68	
3RD QUARTILE	7.314	33.835	0.445	184.44	23.53	454.08	381.60	76.32	
VOL. WGT. MEAN	5.231	21.091	0.305	119.22	14.78	343.29	389.80	58.17	
MISSING VALUES	0	0	0	0	0	0	2	0	

	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	3	3	3	3	3	3	3	
MAXIMUM	39.43	890.40	22.50	3.75	18.44	4013.16	2556.16	
MINIMUM	6.25	393.75	22.50	0.00	8.75	2812.50	2269.24	
ARITH. MEAN	20.50	703.25	22.50	1.25	14.80	3373.73	2414.47	
ARITH. STD. DEV.	13.94	220.44	0.00	1.77	4.31	493.28	117.16	
GEOM. MEAN	15.74	661.49	22.50	1.55	14.05	3338.11	2411.62	
1ST QUARTILE	6.25	393.75	22.50	0.00	8.75	2812.50	2269.24	
2ND QUARTILE	15.82	825.60	22.50	0.00	17.20	3295.52	2418.00	
3RD QUARTILE	39.43	890.40	22.50	3.75	18.44	4013.16	2556.16	
VOL. WGT. MEAN	20.50	703.25	23.39	3.90	14.80	3373.73	2414.47	
MISSING VALUES	0	0	2	0	0	0	0	

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

STATION: SHALLOW LAKE MIC TYPE A SITE NO. 1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
13	13	13	13	13	13	13	13	13
MAXIMUM	147.0	427.00	57.36	72.98	18.14	59.511	17.028	22.125
MINIMUM	28.1	67.44	7.83	3.48	2.03	8.700	0.870	0.452
ARITH. MEAN	85.5	225.73	40.22	22.40	9.65	36.279	4.810	4.024
ARITH. STD. DEV.	36.2	116.83	14.20	17.50	4.56	17.686	4.164	5.481
GEOM. MEAN	76.8	191.12	36.38	16.72	8.37	30.888	3.482	2.383
1ST QUARTILE	71.7	116.16	34.85	13.35	6.32	18.876	2.108	1.492
2ND QUARTILE	75.0	254.54	37.40	20.33	9.73	40.940	4.356	2.510
3RD QUARTILE	90.3	298.85	52.92	25.20	12.60	53.200	5.580	3.400
VOL. WGT. MEAN	.	225.73	40.22	22.40	9.65	36.279	4.810	4.024
MISSING VALUES	0	0	0	0	0	0	0	0

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
13	13	13	13	13	13	13	13	13
MAXIMUM	9.765	56.356	3.375	1479.00	2900.00	6130.60	7253.46	1479.00
MINIMUM	0.725	5.850	0.000	50.91	0.00	98.35	477.70	15.97
ARITH. MEAN	3.537	32.496	0.696	315.27	239.17	1105.28	2844.12	176.82
ARITH. STD. DEV.	2.268	18.459	0.932	390.29	768.30	1798.55	2450.07	393.81
GEOM. MEAN	2.945	25.650	0.503	182.07	13.91	473.92	1798.94	67.64
1ST QUARTILE	2.510	13.364	0.087	78.12	6.18	275.90	682.44	40.46
2ND QUARTILE	2.709	41.700	0.419	166.98	12.91	307.82	1411.20	49.16
3RD QUARTILE	3.823	48.790	0.840	294.00	31.45	514.50	4794.50	78.87
VOL. WGT. MEAN	3.537	32.496	0.814	315.27	329.06	1096.87	2774.54	177.65
MISSING VALUES	0	0	0	0	0	3	6	1

# OF SAMPLES	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	1450.00	2871.00	1480.64	2900.00	2900.00	10122.00	6548.29
MINIMUM	4.17	423.03	11.22	0.00	0.00	1568.90	855.85
ARITH. MEAN	124.87	1062.60	199.19	230.44	237.57	5617.18	3453.52
ARITH. STD. DEV.	382.61	804.32	453.68	770.67	768.68	2645.02	1743.14
GEOM. MEAN	17.52	849.38	49.71	8.46	15.50	4913.20	2987.95
1ST QUARTILE	10.68	516.15	30.80	3.93	9.70	4109.16	2142.58
2ND QUARTILE	13.60	610.85	32.67	6.53	12.64	4539.00	3350.13
3RD QUARTILE	21.63	896.70	50.73	15.00	21.75	7812.00	4514.13
VOL. WGT. MEAN	124.87	1067.61	193.52	291.00	299.24	5617.18	3453.52
MISSING VALUES	0	1	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: PALMERSTON MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	13	
MAXIMUM	123.0	412.50	63.80	42.60	23.86	86.020	10.956	7.380	
MINIMUM	34.0	154.38	20.50	0.00	4.00	7.700	0.000	0.000	
ARITH. MEAN	72.6	248.39	41.79	20.80	12.92	44.445	4.718	2.862	
ARITH. STD. DEV.	26.5	80.68	12.76	11.41	5.70	20.058	2.733	2.102	
GEOM. MEAN	67.7	235.79	39.84	15.96	11.51	38.523	4.014	2.404	
1ST QUARTILE	50.0	176.79	32.87	13.20	7.60	29.500	2.475	1.480	
2ND QUARTILE	70.0	243.20	38.00	22.13	13.20	43.546	4.610	2.100	
3RD QUARTILE	92.2	301.35	49.79	26.40	17.20	53.625	6.072	3.300	
VOL. WGT. MEAN	0	248.39	41.79	21.58	12.92	42.560	4.894	2.969	
MISSING VALUES	0	0	0	0	0	1	0	0	

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	13	
MAXIMUM	17.892	107.440	6.600	395.20	88.56	1353.00	1353.00	332.10	
MINIMUM	0.000	27.706	0.100	82.88	0.00	119.00	357.00	32.98	
ARITH. MEAN	5.709	49.395	1.471	198.41	27.71	613.43	736.44	136.76	
ARITH. STD. DEV.	5.082	23.169	1.844	101.40	22.02	323.16	359.40	85.24	
GEOM. MEAN	3.890	45.098	0.684	173.44	18.26	522.72	659.89	113.40	
1ST QUARTILE	1.650	33.405	0.277	105.40	11.84	414.40	442.00	77.00	
2ND QUARTILE	4.400	40.888	0.590	176.66	28.00	506.00	602.25	110.90	
3RD QUARTILE	8.610	53.874	2.310	244.02	33.19	848.24	1214.40	151.80	
VOL. WGT. MEAN	6.267	49.395	1.409	198.41	29.93	614.10	728.73	137.30	
MISSING VALUES	0	0	1	0	0	2	6	1	

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	
MAXIMUM	34.41	4059.00	191.70	184.50	28.34	9218.00	6329.84	
MINIMUM	3.06	440.00	23.00	0.00	0.00	1867.50	641.55	
ARITH. MEAN	14.63	1276.44	74.98	31.86	8.00	4588.81	2706.61	
ARITH. STD. DEV.	9.46	929.99	49.62	54.54	7.71	1950.80	1386.17	
GEOM. MEAN	11.42	1070.27	61.82	12.03	4.95	4180.74	2365.76	
1ST QUARTILE	7.50	747.00	36.85	6.00	0.00	3303.36	1774.07	
2ND QUARTILE	11.45	986.00	69.57	10.50	6.97	4641.34	2542.03	
3RD QUARTILE	23.37	1210.00	80.30	16.19	11.99	5596.50	3089.62	
VOL. WGT. MEAN	14.63	1281.50	73.02	33.06	13.13	4588.81	2706.61	
MISSING VALUES	0	1	5	0	0	0	0	

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
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STATION: DOGS NEST EAST MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	
# OF SAMPLES	3									
MAXIMUM	107.6	398.12	75.105	2.582	979.16	17.00	621.30	393.09	189.66	
MINIMUM	65.4	284.13	51.836	0.262	228.90	0.00	591.80	393.09	52.72	
ARITH. MEAN	80.8	326.61	62.631	1.271	536.67	5.67	606.55	393.09	113.13	
ARITH. STD. DEV.	19.0	50.86	9.573	0.971	320.77	8.02	14.75	0.00	57.05	
GEOM. MEAN	78.7	322.88	61.911	0.869	448.28	2.57	606.37	393.09	99.00	
1ST QUARTILE	65.4	284.13	51.836	0.262	228.90	0.00	591.80	393.09	52.72	
2ND QUARTILE	69.3	297.57	60.953	0.970	401.94	0.00	606.55	393.09	97.02	
3RD QUARTILE	107.6	398.12	75.105	2.582	979.16	17.00	621.30	393.09	189.66	
VOL. WGT. MEAN	.	326.61	62.631	1.271	536.67	21.00	566.35	458.13	113.13	
MISSING VALUES	0	0	0	0	0	0	1	2	0	

	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	3						
MAXIMUM	33.96	1829.20	49.50	0.00	16.35	6291.48	5315.91
MINIMUM	17.22	1111.80	24.95	0.00	0.00	4546.08	2702.79
ARITH. MEAN	25.34	1511.63	38.77	0.00	5.45	5674.85	3804.29
ARITH. STD. DEV.	6.84	298.60	10.26	0.00	7.71	799.30	1105.52
GEOM. MEAN	24.40	1479.96	37.25	1.00	2.54	5614.23	3653.49
1ST QUARTILE	17.22	1111.80	24.95	0.00	0.00	4546.08	2702.79
2ND QUARTILE	24.85	1593.90	41.86	0.00	0.00	6187.00	3394.17
3RD QUARTILE	33.96	1829.20	49.50	0.00	16.35	6291.48	5315.91
VOL. WGT. MEAN	25.34	1511.63	38.77	0.00	20.19	5674.85	3804.29
MISSING VALUES	0	0	0	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

STATION: NORTH DUFFERIN MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	2	2	2	2	2	2	2	2	2	2	2
MAXIMUM	86.1	533.82	72.32	129.15	24.97	83.947	34.440	12.485	1291.50	552.64	194.68
MINIMUM	62.8	241.78	49.61	45.84	11.30	32.656	11.932	1.570	628.00	552.64	80.07
ARITH. MEAN	74.4	387.80	60.97	87.50	18.14	58.302	23.186	7.027	959.75	552.64	137.38
ARITH. STD. DEV.	11.7	146.02	11.36	41.65	6.83	25.646	11.254	5.457	331.75	0.00	57.30
GEOM. MEAN	73.5	359.26	59.90	76.95	16.80	52.358	20.272	4.427	900.59	552.64	124.85
1ST QUARTILE	62.8	241.78	49.61	45.84	11.30	32.656	11.932	1.570	628.00	552.64	80.07
2ND QUARTILE	74.4	387.80	60.97	87.50	18.14	58.302	23.186	7.027	959.75	552.64	137.38
3RD QUARTILE	86.1	533.82	72.32	129.15	24.97	83.947	34.440	12.485	1291.50	552.64	194.68
VOL. WGT. MEAN	.	387.80	60.97	87.50	18.14	58.302	23.186	7.027	959.75	655.16	137.38
MISSING VALUES	0	0	0	0	0	0	0	0	0	1	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ACIDITY GRAN UG/M**2	ARSENIC UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	2	2	2	2	2	2	2	2
MAXIMUM	6.458	60.098	8.007	1808.10	154.98	1291.50	154.98	3220.77
MINIMUM	4.082	29.767	0.126	244.92	62.17	628.00	62.17	2917.45
ARITH. MEAN	5.270	44.932	4.066	1026.51	108.58	959.75	108.58	3069.11
ARITH. STD. DEV.	1.188	15.165	3.941	781.59	46.40	331.75	46.40	151.66
GEOM. MEAN	5.134	42.296	1.003	665.46	98.16	900.59	98.16	3065.36
1ST QUARTILE	4.082	29.767	0.126	244.92	62.17	628.00	62.17	2917.45
2ND QUARTILE	5.270	44.932	4.066	1026.51	108.58	959.75	108.58	3069.11
3RD QUARTILE	6.458	60.098	8.007	1808.10	154.98	1291.50	154.98	3220.77
VOL. WGT. MEAN	5.270	44.932	4.066	1026.51	108.58	959.75	108.58	3069.11
MISSING VALUES	0	0	0	0	0	0	0	0

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	2	2	2	2	2	2	2
MAXIMUM	22.39	4391.10	146.37	24.49	9.47	5432.91	3220.77
MINIMUM	15.70	1130.40	144.44	19.80	0.00	4257.84	2917.45
ARITH. MEAN	19.04	2760.75	145.41	22.15	4.74	4845.38	3069.11
ARITH. STD. DEV.	3.34	1630.35	0.97	2.34	4.74	587.54	151.66
GEOM. MEAN	18.75	2227.94	145.40	22.02	3.08	4809.62	3065.36
1ST QUARTILE	15.70	1130.40	144.44	19.80	0.00	4257.84	2917.45
2ND QUARTILE	19.04	2760.75	145.41	22.15	4.74	4845.38	3069.11
3RD QUARTILE	22.39	4391.10	146.37	24.49	9.47	5432.91	3220.77
VOL. WGT. MEAN	19.04	2760.75	145.41	22.15	8.19	4845.38	3069.11
MISSING VALUES	0	0	0	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: HURON PARK MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	10								
MAXIMUM	133.1	427.80	10	68.40	45.80	10	66.880	10	10
MINIMUM	45.8	107.46		24.48	15.52		14.328	6.840	3.420
ARITH. MEAN	82.1	267.37		44.66	26.10		43.930	2.687	0.690
ARITH. STD. DEV.	26.6	107.30		14.15	9.07		16.308	4.515	2.077
GEOM. MEAN	77.7	243.89		42.31	24.70		40.200	1.514	0.760
1ST QUARTILE	59.7	161.00		32.06	19.53		32.060	3.224	1.912
2ND QUARTILE	79.3	270.75		46.49	21.88		45.526	3.760	1.860
3RD QUARTILE	95.0	342.00		53.24	31.92		54.571	6.412	2.090
VOL. WGT. MEAN		267.37		44.66	26.10		43.930	4.515	2.077
MISSING VALUES	0	0		0	0		0	0	0

	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	10						
MAXIMUM	36.27	1368.00	133.10	1331.00	18.32	9765.00	10
MINIMUM	0.00	418.50	60.42	0.00	0.00	1777.04	6583.90
ARITH. MEAN	15.78	1012.55	105.73	154.65	3.74	5714.31	1150.44
ARITH. STD. DEV.	11.60	311.15	32.27	415.93	7.03	2412.65	3497.52
GEOM. MEAN	10.36	951.01	99.82	10.34	1.87	5109.19	1770.47
1ST QUARTILE	4.68	789.88	60.42	8.36	0.00	3361.11	2969.02
2ND QUARTILE	14.25	1140.00	123.66	9.55	0.00	6389.80	1419.37
3RD QUARTILE	21.28	1331.00	133.10	11.28	0.00	7546.77	4055.25
VOL. WGT. MEAN	17.64	966.55	88.93	195.98	21.85	5714.31	4579.45
MISSING VALUES	1	3	7	1	1	0	3497.52

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: WATERLOO MIC TYPE A SITE NO.1

		EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	:	3	3	3	3	3	3	3	3	3
MAXIMUM	:	78.3		332.78	56.38	36.24	78.30	39.321	3.855	2.313
MINIMUM	:	69.7		142.89	34.85	9.06	9.06	23.698	2.091	0.000
ARITH. MEAN	:	75.0		222.80	45.31	22.65	35.29	31.510	2.973	1.157
ARITH. STD. DEV.	:	3.8		80.38	8.80	13.59	30.66	7.811	0.882	1.157
GEOM. MEAN	:	74.9		209.27	44.46	18.12	23.59	30.526	2.839	1.521
1ST QUARTILE	:	69.7		142.89	34.85	9.06	9.06	23.698	2.091	0.000
2ND QUARTILE	:	77.1		192.75	44.72	22.65	18.50	31.510	2.973	1.157
3RD QUARTILE	:	78.3		332.78	56.38	36.24	78.30	39.321	3.855	2.313
VOL. WGT. MEAN	:	.		222.80	45.31	23.15	35.29	32.211	3.039	2.251
MISSING VALUES	:	0	0	0	0	1	0	1	1	1

		SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	:	3	3	3	3	3	3	3	3
MAXIMUM	:	9.637	32.382	5.481	1096.20	634.23	10595.56	10071.73	939.60
MINIMUM	:	5.228	17.383	0.209	76.67	11.85	181.22	439.12	76.67
ARITH. MEAN	:	7.432	22.861	2.205	509.18	224.10	3774.73	5255.43	508.14
ARITH. STD. DEV.	:	2.205	6.758	2.335	430.32	290.07	4825.37	4816.30	431.47
GEOM. MEAN	:	7.098	21.962	1.020	310.06	58.19	1016.75	2103.03	268.40
1ST QUARTILE	:	5.228	17.383	0.209	76.67	11.85	181.22	439.12	76.67
2ND QUARTILE	:	7.432	18.819	0.925	354.66	26.21	547.41	5255.43	508.14
3RD QUARTILE	:	9.637	32.382	5.481	1096.20	634.23	10595.56	10071.73	939.60
VOL. WGT. MEAN	:	7.598	22.861	2.205	509.18	224.10	3774.73	5328.81	515.23
MISSING VALUES	:	1	0	0	0	0	0	1	1

		VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	:	3	3	3	3	3	3	3
MAXIMUM	:	70.47	7830.00	1252.80	140.94	54.03	4621.11	3493.28
MINIMUM	:	11.15	564.57	51.66	0.00	0.00	4471.80	3140.90
ARITH. MEAN	:	37.49	3209.39	652.23	48.37	26.49	4546.46	3317.09
ARITH. STD. DEV.	:	24.67	3278.66	600.57	65.48	22.07	74.66	176.19
GEOM. MEAN	:	28.94	1760.16	254.39	8.38	11.12	4545.84	3312.41
1ST QUARTILE	:	11.15	564.57	51.66	0.00	0.00	4471.80	3140.90
2ND QUARTILE	:	30.84	1233.60	652.23	4.18	25.44	4546.46	3317.09
3RD QUARTILE	:	70.47	7830.00	1252.80	140.94	54.03	4621.11	3493.28
VOL. WGT. MEAN	:	37.49	3209.39	629.84	73.57	38.37	4647.62	3390.90
MISSING VALUES	:	0	0	1	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: DORSET MIC TYPE A SITE NO.1

		EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	:	13	13	13	13	13	13	13	13	13
MAXIMUM	:	139.0	335.40	40.80	15.48	48.650	4.800	25.670	0.000	0.000
MINIMUM	:	3.0	14.55	1.47	0.75	1.560	2.244	3.369	1.451	6.504
ARITH. MEAN	:	71.5	161.12	13.91	6.86	22.748	1.832	1.732	1.320	1.080
ARITH. STD. DEV.	:	37.1	85.65	10.01	3.77	13.833	2.085	1.380	3.225	2.085
GEOM. MEAN	:	55.3	130.13	10.33	5.60	16.115	2.512	3.602	0	0
1ST QUARTILE	:	48.0	105.80	7.56	5.32	13.440	2.085	3.602	0	0
2ND QUARTILE	:	60.0	149.60	11.12	6.06	24.640	2.085	3.602	0	0
3RD QUARTILE	:	99.0	202.00	17.16	8.84	29.640	2.512	3.602	0	0
VOL. WGT. MEAN	:	0	161.12	13.91	6.86	22.748	2.512	3.602	0	0
MISSING VALUES	:	0	0	0	0	0	0	0	0	0

		SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	:	13	13	13	13	13	13	13	13
MAXIMUM	:	5.805	43.646	3.502	350.40	47.26	3552.00	6233.80	133.44
MINIMUM	:	0.000	2.076	0.000	37.80	0.00	114.00	506.00	1.66
ARITH. MEAN	:	2.282	22.770	0.531	167.20	12.86	657.69	2539.96	72.02
ARITH. STD. DEV.	:	1.640	12.488	0.933	80.96	14.07	975.69	2477.69	41.54
GEOM. MEAN	:	1.831	17.084	0.385	144.90	5.67	382.38	1482.05	47.85
1ST QUARTILE	:	1.190	16.632	0.012	105.60	0.00	246.40	563.20	44.55
2ND QUARTILE	:	1.980	25.584	0.202	162.25	11.70	342.35	1071.00	72.80
3RD QUARTILE	:	3.520	31.008	0.368	207.40	18.06	458.70	5794.75	114.00
VOL. WGT. MEAN	:	2.422	22.770	0.660	154.84	19.55	608.01	2951.37	58.04
MISSING VALUES	:	0	0	0	1	1	3	7	4

		VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	:	13	13	13	13	13	13	13
MAXIMUM	:	30.58	1196.00	127.88	72.20	28.28	9804.00	6770.02
MINIMUM	:	0.00	186.00	54.56	0.00	0.00	336.00	207.55
ARITH. MEAN	:	12.28	586.87	86.51	9.84	11.41	4809.05	3087.06
ARITH. STD. DEV.	:	9.50	272.32	23.21	19.22	9.58	2958.12	1912.19
GEOM. MEAN	:	7.84	525.37	83.51	3.84	6.31	3507.94	2179.26
1ST QUARTILE	:	3.36	356.40	68.00	0.00	0.00	2485.40	1941.56
2ND QUARTILE	:	9.99	512.80	82.80	4.78	13.54	4471.20	2899.97
3RD QUARTILE	:	17.82	744.80	110.94	8.74	15.84	6485.60	4223.14
VOL. WGT. MEAN	:	12.08	543.48	70.59	15.52	13.94	4809.05	3087.06
MISSING VALUES	:	1	1	6	1	1	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: UXBRIDGE MIC TYPE A SITE NO.1

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2					
# OF SAMPLES		3	3	3	3	3	3	3					
MAXIMUM	73.6	136.16	43.66	24.57	25.37	28.350	2.205	2.576					
MINIMUM	59.0	122.85	27.23	16.19	12.60	19.872	1.472	1.180					
ARITH. MEAN	65.2	128.62	33.92	19.49	18.05	23.351	1.717	1.672					
ARITH. STD. DEV.	6.2	5.58	7.05	3.65	5.38	3.624	0.345	0.640					
GEOM. MEAN	64.9	128.50	33.23	19.17	17.30	23.082	1.685	1.565					
1ST QUARTILE	59.0	122.85	27.23	16.19	12.60	19.872	1.472	1.180					
2ND QUARTILE	63.0	126.85	30.87	17.70	16.19	21.830	1.475	1.260					
3RD QUARTILE	73.6	136.16	43.66	24.57	25.37	28.350	2.205	2.576					
VOL. WGT. MEAN	.	128.62	33.92	19.49	18.05	23.351	1.717	1.672					
MISSING VALUES	0	0	0	0	0	0	0	0					
		SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2				
# OF SAMPLES		3	3	3	3	3	3	3	3				
MAXIMUM	13.570	23.184	0.442	195.30	24.19	309.12	1534.00	132.48					
MINIMUM	8.190	14.131	0.177	71.39	0.00	200.60	427.00	64.90					
ARITH. MEAN	10.811	18.810	0.353	145.93	12.97	264.41	980.50	98.69					
ARITH. STD. DEV.	2.199	3.702	0.125	53.62	9.95	46.31	553.50	33.79					
GEOM. MEAN	10.585	18.433	0.325	133.62	7.09	260.02	809.33	92.73					
1ST QUARTILE	8.190	14.131	0.177	71.39	0.00	200.60	427.00	64.90					
2ND QUARTILE	10.672	19.116	0.441	171.10	14.72	283.50	980.50	98.69					
3RD QUARTILE	13.570	23.184	0.442	195.30	24.19	309.12	1534.00	132.48					
VOL. WGT. MEAN	10.811	18.810	0.353	145.93	19.13	264.41	1048.01	97.05					
MISSING VALUES	0	0	0	0	0	0	1	1					
		VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2					
# OF SAMPLES		3	3	3	3	3	3	3					
MAXIMUM	18.29	885.00	54.46	11.04	20.06	5015.00	3317.81						
MINIMUM	8.83	382.72	47.88	3.54	0.00	2501.10	1695.67						
ARITH. MEAN	14.29	601.07	51.17	7.80	10.61	3660.89	2647.85						
ARITH. STD. DEV.	4.00	210.23	3.29	3.15	8.23	1035.45	691.65						
GEOM. MEAN	13.65	566.06	51.07	7.01	6.18	3516.42	2545.01						
1ST QUARTILE	8.83	382.72	47.88	3.54	0.00	2501.10	1695.67						
2ND QUARTILE	15.75	535.50	51.17	8.82	11.78	3466.56	2930.07						
3RD QUARTILE	18.29	885.00	54.46	11.04	20.06	5015.00	3317.81						
VOL. WGT. MEAN	14.29	601.07	48.85	7.80	15.65	3660.89	2647.85						
MISSING VALUES	0	0	1	0	0	0	0						

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# OF SAMPLES	3	3	3	3	3	3	3	3	3	3	3	3	3
MAXIMUM	18.29	885.00	54.46	11.04	20.06	5015.00	3317.81						
MINIMUM	8.83	382.72	47.88	3.54	0.00	2501.10	1695.67						
ARITH. MEAN	14.29	601.07	51.17	7.80	10.61	3660.89	2647.85						
ARITH. STD. DEV.	4.00	210.23	3.29	3.15	8.23	1035.45	691.65						
GEOM. MEAN	13.65	566.06	51.07	7.01	6.18	3516.42	2545.01						
1ST QUARTILE	8.83	382.72	47.88	3.54	0.00	2501.10	1695.67						
2ND QUARTILE	15.75	535.50	51.17	8.82	11.78	3466.56	2930.07						
3RD QUARTILE	18.29	885.00	54.46	11.04	20.06	5015.00	3317.81						
VOL. WGT. MEAN	14.29	601.07	48.85	7.80	15.65	3660.89	2647.85						
MISSING VALUES	0	0	1	0	0	0	0						

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

STATION: WILBERFORCE MIC TYPE A SITE NO.1

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	92.0	123.00	39.00	21.00	9.00	24.000	1.800	1.500
MINIMUM	60.0	123.00	39.00	21.00	9.00	24.000	1.800	1.500
ARITH. MEAN	73.3	123.00	39.00	21.00	9.00	24.000	1.800	1.500
ARITH. STD. DEV.	13.6	0.00	0.00	0.00	0.00	0.000	0.000	0.000
GEOM. MEAN	72.1	123.00	39.00	21.00	9.00	24.000	1.800	1.500
1ST QUARTILE	60.0	123.00	39.00	21.00	9.00	24.000	1.800	1.500
2ND QUARTILE	68.0	123.00	39.00	21.00	9.00	24.000	1.800	1.500
3RD QUARTILE	92.0	123.00	39.00	21.00	9.00	24.000	1.800	1.500
VOL. WGT. MEAN	.	150.33	47.67	25.67	11.00	29.333	2.200	1.833
MISSING VALUES	0	2	2	2	2	2	2	2

SODIUM MG/M**2		AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	3	3	3	3	3	3	3	3
MAXIMUM	4.800	19.200	0.300	192.00	18.60	330.00	403.93	96.00
MINIMUM	4.800	19.200	0.300	192.00	18.60	330.00	403.93	96.00
ARITH. MEAN	4.800	19.200	0.300	192.00	18.60	330.00	403.93	96.00
ARITH. STD. DEV.	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00
GEOM. MEAN	4.800	19.200	0.300	192.00	18.60	330.00	403.93	96.00
1ST QUARTILE	4.800	19.200	0.300	192.00	18.60	330.00	403.93	96.00
2ND QUARTILE	4.800	19.200	0.300	192.00	18.60	330.00	403.93	96.00
3RD QUARTILE	4.800	19.200	0.300	192.00	18.60	330.00	403.93	96.00
VOL. WGT. MEAN	5.867	23.467	0.367	234.67	22.73	403.33	493.70	117.33
MISSING VALUES	2	2	2	2	2	2	2	2

VANADIUM UG/M**2		ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREH+ LAB UG/M**2
# OF SAMPLES	3	3	3	3	3	3	3
MAXIMUM	14.40	1020.00	96.00	7.20	0.00	3648.00	3077.17
MINIMUM	14.40	1020.00	96.00	7.20	0.00	3648.00	3077.17
ARITH. MEAN	14.40	1020.00	96.00	7.20	0.00	3648.00	3077.17
ARITH. STD. DEV.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GEOM. MEAN	14.40	1020.00	96.00	7.20	1.00	3648.00	3077.17
1ST QUARTILE	14.40	1020.00	96.00	7.20	0.00	3648.00	3077.17
2ND QUARTILE	14.40	1020.00	96.00	7.20	0.00	3648.00	3077.17
3RD QUARTILE	14.40	1020.00	96.00	7.20	0.00	3648.00	3077.17
VOL. WGT. MEAN	17.60	1246.67	117.33	8.80	0.00	4458.67	3760.98
MISSING VALUES	2	2	2	2	2	2	2

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: CAMPBELLFORD MIC TYPE A SITE NO.1

EQUIVALENT
PREC. DEPTH
MM

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
MAXIMUM	11	390.00	11	314.60	11	214.500	11	11
MINIMUM	114.0	71.33	68.16	3.50	24.05	9.800	10.400	41.925
ARITH. MEAN	66.0	202.76	7.70	44.09	1.75	43.800	0.000	0.525
ARITH. STD. DEV.	29.1	104.95	36.94	95.80	9.14	61.269	2.496	5.850
GEOM. MEAN	59.1	173.55	31.12	13.13	6.67	25.999	2.981	12.768
1ST QUARTILE	33.0	108.90	24.42	6.84	7.13	14.820	1.699	1.777
2ND QUARTILE	65.0	178.25	33.97	9.19	5.58	23.250	0.825	1.110
3RD QUARTILE	96.0	288.00	51.00	14.26	6.66	30.020	1.185	1.240
VOL. WGT. MEAN	.	205.26	37.39	44.64	9.60	44.339	2.880	1.920
MISSING VALUES	0	2	2	2	9.25	2	3.136	5.922

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
MAXIMUM	11	263.250	11	220.80	11	4289.41	11	11
MINIMUM	17.550	7.560	27.300	37.20	147.00	99.00	2695.00	163.20
ARITH. MEAN	0.000	47.020	0.000	101.81	0.00	910.57	133.30	16.83
ARITH. STD. DEV.	4.606	77.212	3.174	65.45	36.59	1386.90	1197.88	78.16
GEOM. MEAN	5.324	23.365	0.531	82.74	44.73	442.08	864.56	41.41
1ST QUARTILE	2.978	13.908	0.488	43.55	17.50	237.75	777.81	66.21
2ND QUARTILE	1.975	20.540	0.132	76.63	12.24	434.00	247.50	51.00
3RD QUARTILE	2.310	26.112	0.186	153.00	13.63	576.00	1265.75	70.02
VOL. WGT. MEAN	3.170	47.599	0.192	103.07	37.44	1068.39	1580.00	79.80
MISSING VALUES	4.958	2	4.307	2	45.97	4	1726.60	79.09

FREEH+
LAB

ACIDITY GRAN
UG/M**2

ARSENIC
UG/M**2

CADMIUM
UG/M**2

COPPER
UG/M**2

ALUMINIUM
UG/M**2

VANADIUM
UG/M**2

# OF SAMPLES	ACIDITY GRAN UG/M**2	ARSENIC UG/M**2	CADMIUM UG/M**2	COPPER UG/M**2	ALUMINIUM UG/M**2	VANADIUM UG/M**2	FREEH+ LAB UG/M**2
MAXIMUM	11	11	11	11	11	11	11
MINIMUM	9149.40	23.04	1575.00	68.73	1470.00	35.52	7056.68
ARITH. MEAN	695.50	0.00	0.00	9.61	280.50	4.03	1.79
ARITH. STD. DEV.	4937.19	8.73	178.47	45.29	731.92	13.13	3529.87
GEOM. MEAN	2951.28	7.58	493.77	25.61	360.97	10.45	2282.93
1ST QUARTILE	3805.73	5.25	5.25	34.92	643.43	9.72	1450.37
2ND QUARTILE	2103.50	0.00	0.00	18.81	412.10	4.44	1383.76
3RD QUARTILE	4278.00	8.69	2.22	63.00	718.90	8.69	3813.83
VOL. WGT. MEAN	7900.00	12.35	8.99	66.30	940.80	15.96	5219.48
MISSING VALUES	4997.93	10.60	380.32	53.37	740.93	13.29	3573.30

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: COLDWATER MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
13	13	13	13	13	13	13	13	13	13
MAXIMUM	107.0	342.40	342.40	50.84	34.24	16.66	73.320	5.350	3.210
MINIMUM	34.0	73.10	73.10	9.52	4.42	0.68	0.940	0.510	0.680
ARITH. MEAN	68.9	177.95	177.95	31.78	16.08	8.16	29.693	2.500	2.039
ARITH. STD. DEV.	22.9	76.28	76.28	11.22	8.77	4.22	20.334	1.490	0.777
GEOM. MEAN	64.9	160.96	160.96	29.26	13.40	6.62	20.568	2.011	1.876
1ST QUARTILE	51.0	96.90	96.90	24.70	6.44	4.76	14.960	1.074	1.410
2ND QUARTILE	68.0	180.75	180.75	32.26	16.19	7.55	27.362	2.400	1.875
3RD QUARTILE	82.0	225.40	225.40	37.20	21.15	9.00	32.640	3.000	2.700
VOL. WGT. MEAN	.	175.85	175.85	31.41	15.89	8.06	29.342	2.470	2.015
MISSING VALUES	0	1	1	1	1	1	1	1	1

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
13	13	13	13	13	13	13	13	13
MAXIMUM	5.100	61.846	2.886	385.20	32.34	428.40	1312.00	137.20
MINIMUM	0.000	5.032	0.094	41.48	0.00	149.60	437.61	24.18
ARITH. MEAN	2.201	29.409	0.554	152.35	11.44	268.19	721.95	75.21
ARITH. STD. DEV.	1.469	16.565	0.725	88.24	10.22	82.49	350.55	40.68
GEOM. MEAN	1.897	24.411	0.350	131.00	6.05	255.76	652.63	62.41
1ST QUARTILE	0.980	15.428	0.215	98.70	0.00	192.00	437.61	24.60
2ND QUARTILE	1.920	27.114	0.306	132.60	12.17	251.55	569.10	78.00
3RD QUARTILE	2.730	37.556	0.480	163.20	18.36	319.80	658.00	97.92
VOL. WGT. MEAN	2.267	29.061	0.548	143.85	16.37	252.23	666.27	70.73
MISSING VALUES	1	1	1	2	2	5	9	5

# OF SAMPLES	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	18.36	902.00	90.20	15.58	41.00	98333.00	4611.20
MINIMUM	0.00	368.60	10.94	0.00	0.00	1411.00	726.91
ARITH. MEAN	9.89	572.68	50.02	7.25	12.34	11961.68	2575.48
ARITH. STD. DEV.	5.15	175.93	28.61	3.74	12.25	26093.22	1231.48
GEOM. MEAN	8.11	547.70	40.39	6.25	6.11	4865.20	2209.54
1ST QUARTILE	5.88	420.00	21.28	5.64	0.00	2646.10	1208.09
2ND QUARTILE	10.14	541.70	47.59	6.63	11.22	4880.20	2757.98
3RD QUARTILE	14.28	659.60	69.36	10.20	18.87	5412.00	3465.64
VOL. WGT. MEAN	9.81	567.18	47.48	7.19	18.00	11820.24	2545.03
MISSING VALUES	2	3	5	2	2	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

STATION: TORONTO ISLAND MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13	13	13	13
MAXIMUM	92.0	395.60	60.520	2.652	455.80	71.28	1080.00	8279.00	261.74	6831.22
MINIMUM	34.0	136.40	15.714	0.000	61.60	0.00	106.40	415.80	2.76	1707.63
ARITH. MEAN	62.2	239.51	28.361	0.559	199.11	30.40	487.37	2004.38	124.46	4385.41
ARITH. STD. DEV.	16.9	88.24	12.502	0.690	105.25	20.90	230.90	2500.10	79.68	1426.90
GEOM. MEAN	59.8	224.45	26.184	0.497	172.88	18.53	430.10	1195.75	75.85	4131.10
1ST QUARTILE	54.0	161.51	20.944	0.122	113.40	15.12	330.00	616.00	70.40	3576.45
2ND QUARTILE	60.0	203.95	22.736	0.360	192.00	25.84	440.00	904.30	111.80	4011.43
3RD QUARTILE	68.0	278.64	31.968	0.476	282.20	48.40	564.40	1047.60	170.00	4735.11
VOL. WGT. MEAN	.	238.82	28.361	0.668	199.11	35.34	480.83	2008.54	124.46	4372.78
MISSING VALUES	0	1	0	0	0	0	2	5	1	1

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13	13	13
MAXIMUM	17.820	60.520	2.652	455.80	71.28	1080.00	8279.00	261.74	6831.22
MINIMUM	0.540	15.714	0.000	61.60	0.00	106.40	415.80	2.76	1707.63
ARITH. MEAN	4.885	28.361	0.559	199.11	30.40	487.37	2004.38	124.46	4385.41
ARITH. STD. DEV.	4.740	12.502	0.690	105.25	20.90	230.90	2500.10	79.68	1426.90
GEOM. MEAN	3.234	26.184	0.497	172.88	18.53	430.10	1195.75	75.85	4131.10
1ST QUARTILE	1.138	20.944	0.122	113.40	15.12	330.00	616.00	70.40	3576.45
2ND QUARTILE	3.420	22.736	0.360	192.00	25.84	440.00	904.30	111.80	4011.43
3RD QUARTILE	5.060	31.968	0.476	282.20	48.40	564.40	1047.60	170.00	4735.11
VOL. WGT. MEAN	4.871	28.361	0.668	199.11	35.34	480.83	2008.54	124.46	4372.78
MISSING VALUES	1	0	0	0	0	2	5	1	1

# OF SAMPLES	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	38.28	3360.00	288.09	19.20	31.28	8792.00	6831.22
MINIMUM	0.00	352.80	20.64	0.00	0.00	3666.60	1707.63
ARITH. MEAN	15.76	1194.74	106.24	7.79	11.15	6056.66	4385.41
ARITH. STD. DEV.	9.71	798.60	73.58	5.53	9.20	1493.86	1426.90
GEOM. MEAN	11.96	983.87	82.07	5.72	6.51	5873.95	4131.10
1ST QUARTILE	6.48	616.00	65.32	3.78	0.00	5016.00	3576.45
2ND QUARTILE	17.40	1134.90	90.60	6.60	10.80	5767.42	4011.43
3RD QUARTILE	20.08	1292.00	138.00	11.66	17.16	6804.00	4735.11
VOL. WGT. MEAN	16.94	1194.74	101.75	9.05	15.71	6039.22	4372.78
MISSING VALUES	0	0	3	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

STATION: SMITHS FALLS MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	112.0	543.90	65.66	112.70	89.25	93.100	36.505	9.555
MINIMUM	31.0	49.20	8.99	2.87	0.93	5.330	0.615	0.205
ARITH. MEAN	59.1	214.02	36.67	23.52	16.25	28.356	6.218	2.532
ARITH. STD. DEV.	23.3	137.80	17.98	31.07	23.76	24.057	10.276	2.996
GEOM. MEAN	54.8	173.56	31.20	13.23	8.52	21.012	2.873	1.302
1ST QUARTILE	41.0	102.30	16.50	5.60	6.50	12.320	1.120	0.560
2ND QUARTILE	49.0	174.00	41.16	14.70	8.00	21.470	2.620	1.520
3RD QUARTILE	75.0	318.50	50.05	18.00	16.66	33.150	4.600	2.050
VOL. WGT. MEAN	.	201.56	34.53	22.59	15.30	27.239	5.973	2.432
MISSING VALUES	0	2	2	3	2	3	3	3

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	13.760	71.200	5.635	833.00	38.64	735.00	1901.89	172.20
MINIMUM	0.465	4.346	0.000	52.70	0.00	82.00	751.72	38.00
ARITH. MEAN	4.360	30.896	1.418	237.27	17.48	421.16	1336.52	99.58
ARITH. STD. DEV.	3.794	20.918	2.231	234.97	11.79	189.77	436.40	43.93
GEOM. MEAN	2.913	23.086	1.194	153.16	10.89	358.69	1258.25	88.28
1ST QUARTILE	1.435	12.096	0.000	61.50	7.20	313.90	903.00	45.10
2ND QUARTILE	3.375	27.720	0.000	136.80	20.30	394.40	1558.00	118.00
3RD QUARTILE	6.000	47.726	4.425	352.60	23.78	565.80	1568.00	122.50
VOL. WGT. MEAN	4.188	29.098	3.388	227.92	22.36	448.88	1399.96	94.13
MISSING VALUES	3	2	2	3	3	6	8	5

	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	13	13	13	13	13	13	13
MAXIMUM	30.34	2156.00	285.60	109.20	38.40	8904.00	6352.04
MINIMUM	6.15	151.70	39.60	0.00	0.00	1522.50	15.31
ARITH. MEAN	16.96	969.25	120.40	24.20	12.76	4387.34	2934.00
ARITH. STD. DEV.	9.09	581.15	96.67	35.10	14.28	2343.30	1938.76
GEOM. MEAN	14.30	769.77	91.19	8.76	5.47	3740.92	1648.39
1ST QUARTILE	7.15	548.80	39.60	3.28	0.00	2021.30	1518.31
2ND QUARTILE	15.65	948.00	78.20	9.98	7.29	4343.00	2968.31
3RD QUARTILE	27.09	1176.00	78.40	17.60	23.52	6068.00	4016.19
VOL. WGT. MEAN	16.29	931.06	119.54	33.95	23.19	4132.02	2763.26
MISSING VALUES	3	3	9	3	3	2	2

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: GOLDEN LAKE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	13	
MAXIMUM	98.0	274.40	46.97	16.66	10.01	42.320	3.690	4.370	
MINIMUM	24.0	75.60	10.80	3.60	1.80	8.680	0.720	0.720	
ARITH. MEAN	59.1	147.58	25.70	9.33	5.33	24.667	1.815	2.525	
ARITH. STD. DEV.	20.0	52.24	9.84	5.01	2.35	12.354	0.964	1.203	
GEOM. MEAN	55.5	139.13	23.83	8.02	4.77	21.127	1.578	2.175	
1ST QUARTILE	46.0	119.60	20.09	5.52	3.36	10.800	1.005	1.675	
2ND QUARTILE	62.0	146.58	24.30	7.34	5.60	26.405	1.360	2.250	
3RD QUARTILE	73.0	167.90	32.83	16.17	6.82	32.640	2.695	3.570	
VOL. WGT. MEAN	.	137.42	23.93	8.69	4.96	22.970	1.690	2.351	
MISSING VALUES	0	3	3	3	3	3	3	3	

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	13	
MAXIMUM	5.100	34.496	2.116	258.30	61.32	1825.00	949.00	182.50	
MINIMUM	0.540	8.232	0.000	50.40	0.00	78.96	258.30	34.44	
ARITH. MEAN	2.846	21.470	0.536	117.23	15.66	554.27	523.51	75.17	
ARITH. STD. DEV.	1.445	8.214	0.652	63.91	19.57	605.32	212.66	47.78	
GEOM. MEAN	2.394	19.670	0.674	103.03	6.30	308.39	483.19	64.10	
1ST QUARTILE	1.840	15.914	0.000	69.00	0.00	126.00	322.00	39.60	
2ND QUARTILE	2.485	20.798	0.354	100.50	6.56	268.00	477.40	54.94	
3RD QUARTILE	4.015	28.798	0.459	117.30	19.43	1058.00	648.00	92.00	
VOL. WGT. MEAN	2.650	19.993	0.724	111.80	26.55	576.43	576.30	78.17	
MISSING VALUES	3	3	3	4	4	6	6	6	

	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	
MAXIMUM	11.39	1679.00	414.81	94.90	20.10	67914.00	3494.00	
MINIMUM	3.69	378.00	7.39	0.00	0.00	1835.40	856.56	
ARITH. MEAN	7.37	924.75	102.90	20.20	3.90	10056.73	2304.96	
ARITH. STD. DEV.	2.70	375.98	156.33	33.70	6.50	19314.96	894.42	
GEOM. MEAN	6.86	847.41	38.26	4.65	2.18	4628.68	2105.33	
1ST QUARTILE	4.60	612.00	25.20	0.00	0.00	2706.00	1558.78	
2ND QUARTILE	7.84	918.50	25.55	2.87	0.00	4302.70	2398.52	
3RD QUARTILE	9.49	1066.00	41.54	9.00	6.84	4790.50	3099.03	
VOL. WGT. MEAN	7.03	950.98	113.52	40.87	13.48	9364.76	2146.37	
MISSING VALUES	4	5	8	4	4	3	3	

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: CLOYNE MIC TYPE A SITE NO.1

		EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	:	3	3	3	3	3	3	3	3
MAXIMUM	:	77.0	130.90	42.35	20.79	6.60	27.720	2.310	1.925
MINIMUM	:	60.0	96.00	24.00	3.60	6.16	9.600	0.600	0.300
ARITH. MEAN	:	68.3	113.45	33.18	12.20	6.38	18.660	1.455	1.113
ARITH. STD. DEV.	:	6.9	17.45	9.18	8.60	0.22	9.060	0.855	0.813
GEOM. MEAN	:	68.0	112.10	31.88	8.65	6.38	16.313	1.177	0.760
1ST QUARTILE	:	60.0	96.00	24.00	3.60	6.16	9.600	0.600	0.300
2ND QUARTILE	:	68.0	113.45	33.18	12.20	6.38	18.660	1.455	1.113
3RD QUARTILE	:	77.0	130.90	42.35	20.79	6.60	27.720	2.310	1.925
VOL. WGT. MEAN	:	.	113.17	33.09	12.17	6.36	18.615	1.451	1.110
MISSING VALUES	:	0	1	1	1	1	1	1	1

		SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	:	3	3	3	3	3	3	3	3
MAXIMUM	:	4.620	23.408	0.231	192.50	29.26	150.00	780.00	100.10
MINIMUM	:	2.100	7.440	0.000	126.00	0.00	150.00	331.10	35.40
ARITH. MEAN	:	3.360	15.424	0.116	159.25	14.63	150.00	555.55	67.75
ARITH. STD. DEV.	:	1.260	7.984	0.116	33.25	14.63	0.00	224.45	32.35
GEOM. MEAN	:	3.115	13.197	0.481	155.74	5.41	150.00	508.19	59.53
1ST QUARTILE	:	2.100	7.440	0.000	126.00	0.00	150.00	331.10	35.40
2ND QUARTILE	:	3.360	15.424	0.116	159.25	14.63	150.00	555.55	67.75
3RD QUARTILE	:	4.620	23.408	0.231	192.50	29.26	150.00	780.00	100.10
VOL. WGT. MEAN	:	3.352	15.386	0.205	158.86	25.97	170.83	554.20	67.59
MISSING VALUES	:	1	1	1	1	1	2	1	1

		VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	:	3	3	3	3	3	3	3
MAXIMUM	:	21.56	1001.00	53.13	0.00	10.78	4002.00	3007.12
MINIMUM	:	4.80	366.00	53.13	0.00	0.00	3588.20	2434.95
ARITH. MEAN	:	13.18	683.50	53.13	0.00	5.39	3795.10	2721.04
ARITH. STD. DEV.	:	8.38	317.50	0.00	0.00	5.39	206.90	286.08
GEOM. MEAN	:	10.17	605.28	53.13	1.00	3.28	3789.46	2705.96
1ST QUARTILE	:	4.80	366.00	53.13	0.00	0.00	3588.20	2434.95
2ND QUARTILE	:	13.18	683.50	53.13	0.00	5.39	3795.10	2721.04
3RD QUARTILE	:	21.56	1001.00	53.13	0.00	10.78	4002.00	3007.12
VOL. WGT. MEAN	:	13.15	681.84	47.15	0.00	9.57	3785.87	2714.42
MISSING VALUES	:	1	1	2	1	1	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: PT. PETRE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	13	
MAXIMUM	125.0	357.70	56.80	24.12	22.55	43.200	4.000	2.460	
MINIMUM	24.0	67.20	15.60	3.60	4.20	13.750	0.840	0.300	
ARITH. MEAN	68.4	228.85	42.11	11.40	9.75	25.522	1.988	1.499	
ARITH. STD. DEV.	25.4	90.17	10.64	5.87	4.74	9.678	0.934	0.618	
GEOM. MEAN	63.2	208.13	40.27	9.93	8.77	23.829	1.796	1.331	
1ST QUARTILE	55.0	159.50	39.60	6.90	6.84	18.600	1.250	1.100	
2ND QUARTILE	67.0	216.00	43.55	9.40	8.76	24.380	1.800	1.340	
3RD QUARTILE	82.0	315.70	48.75	15.33	11.28	30.000	2.345	2.070	
VOL. WGT. MEAN	.	228.85	42.11	11.40	9.75	25.522	1.988	1.499	
MISSING VALUES	0	0	0	0	0	0	0	0	

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	13	
MAXIMUM	7.830	39.520	1.012	329.00	35.67	791.70	2080.00	174.00	
MINIMUM	1.200	12.432	0.000	35.88	0.00	79.20	204.00	3.22	
ARITH. MEAN	3.187	23.163	0.291	138.69	15.92	406.11	828.89	85.59	
ARITH. STD. DEV.	1.947	8.398	0.274	88.72	10.49	188.92	558.44	43.44	
GEOM. MEAN	2.674	21.787	0.403	110.57	10.78	353.15	666.66	64.03	
1ST QUARTILE	1.500	16.800	0.110	60.00	7.80	328.00	408.90	67.89	
2ND QUARTILE	3.280	20.532	0.250	121.00	15.58	361.45	723.60	95.00	
3RD QUARTILE	3.750	25.300	0.360	224.00	24.00	474.00	840.00	99.00	
VOL. WGT. MEAN	3.187	23.163	0.390	138.69	18.38	387.87	765.99	85.59	
MISSING VALUES	0	0	0	0	0	3	5	0	

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	
MAXIMUM	32.50	1914.00	46.90	62.64	30.00	59495.00	7124.56	
MINIMUM	2.64	170.20	5.04	0.00	0.00	2056.80	1349.62	
ARITH. MEAN	14.97	979.12	24.60	10.02	6.34	10932.09	5130.21	
ARITH. STD. DEV.	9.45	536.99	15.58	16.86	8.53	14145.00	1421.06	
GEOM. MEAN	11.92	776.71	18.53	3.98	3.19	7669.12	4813.33	
1ST QUARTILE	8.74	522.00	9.84	0.00	0.00	6060.00	5085.14	
2ND QUARTILE	12.18	1168.00	31.25	3.85	0.00	7777.80	5408.66	
3RD QUARTILE	19.74	1410.00	33.00	10.00	10.72	8340.00	5798.60	
VOL. WGT. MEAN	14.97	979.12	26.42	16.68	13.72	10932.09	5130.21	
MISSING VALUES	0	0	4	0	0	0	0	

EQUIVALENT
PREC. DEPTH
MM

# OF SAMPLES	10	10	10	10	10	10
: MAXIMUM	255.0	586.50	102.95	66.83	43.40	15.485
: MINIMUM	9.0	42.75	6.48	6.66	1.26	1.485
: ARITH. MEAN	117.1	310.37	55.63	23.30	15.63	4.835
: DEV.	67.1	146.89	28.75	16.41	12.65	3.992
: GEOM. MEAN	89.9	261.77	45.15	19.07	10.40	3.758
: 1ST QUARTILE	70.0	220.50	33.75	12.75	5.25	2.625
: 2ND QUARTILE	110.0	293.20	48.79	17.87	13.19	3.313
: 3RD QUARTILE	158.0	393.75	86.39	30.60	21.19	6.200
: VOL. WGT. MEAN	.	310.37	55.63	23.30	15.63	4.835
: MISSING VALUES	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL, UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	30.600	71.068	2.295	961.70	183.60	2473.50	12766.49	663.00
MINIMUM	0.540	6.642	0.000	99.00	0.00	53.10	455.40	82.50
ARITH. MEAN	9.426	45.361	0.690	287.56	43.73	609.06	3836.67	230.11
ARITH. STD. DEV.	10.185	20.625	0.821	242.72	51.33	720.79	4604.29	187.84
GEOM. MEAN	4.501	38.346	0.900	224.46	20.47	369.86	1836.51	179.99
1ST QUARTILE	1.500	34.800	0.000	112.00	10.50	238.00	811.72	105.60
2ND QUARTILE	5.500	41.220	0.317	216.20	29.66	384.20	1030.32	146.94
3RD QUARTILE	13.040	66.810	1.550	294.50	52.14	489.00	9073.28	290.00
VOL. WGT. MEAN	9.426	45.361	0.913	287.56	46.51	606.34	3644.17	185.46
MISSING VALUES	0	0	0	0	0	2	3	3

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	10	10	10	10	10	10	10
MAXIMUM	42.66	7140.00	357.00	206.55	52.14	13464.00	9047.74
MINIMUM	1.44	153.00	45.90	0.00	0.00	751.50	402.02
ARITH. MEAN	18.31	1539.50	185.70	31.01	15.07	7813.11	5043.52
ARITH. STD. DEV.	13.30	1939.96	119.82	59.30	15.46	3492.01	2288.70
GEOM. MEAN	12.80	929.24	142.48	9.32	7.27	6427.59	4081.40
1ST QUARTILE	9.24	574.20	57.75	5.28	0.00	5348.00	3590.03
2ND QUARTILE	14.08	818.00	172.34	12.75	12.92	8538.80	5062.62
3RD QUARTILE	30.60	1421.00	261.00	15.80	23.20	9750.00	6782.16
VOL. WGT. MEAN	18.31	1539.50	183.12	36.03	26.03	7813.11	5043.52
MISSING VALUES	0	0	2	0	0	0	0

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: KILLARNEY MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	
# OF SAMPLES	9	9	9	9	9	9	9	9	
MAXIMUM	155.0	472.75	81.92	30.72	14.56	84.480	5.550	4.480	
MINIMUM	25.0	40.00	7.25	3.50	1.50	7.250	0.625	0.500	
ARITH. MEAN	78.8	233.59	40.44	16.49	7.48	37.674	3.076	2.283	
ARITH. STD. DEV.	42.4	118.99	22.76	8.95	4.68	21.077	1.669	1.233	
GEOM. MEAN	66.6	195.47	33.38	13.50	5.94	31.634	2.533	1.891	
1ST QUARTILE	42.0	145.50	26.60	7.80	4.20	30.000	1.500	1.050	
2ND QUARTILE	70.0	223.25	34.20	17.64	6.00	33.250	2.850	2.375	
3RD QUARTILE	104.0	291.20	52.00	23.25	12.80	35.400	4.480	3.100	
VOL. WGT. MEAN	.	233.59	40.44	16.49	7.48	37.674	3.076	2.283	
MISSING VALUES	0	0	0	0	0	0	0	0	

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	
# OF SAMPLES	9	9	9	9	9	9	9	9	
MAXIMUM	6.400	84.480	0.780	390.00	92.40	704.00	6400.00	256.00	
MINIMUM	0.000	7.150	0.000	37.50	0.00	138.00	411.58	19.50	
ARITH. MEAN	2.556	36.685	0.349	196.49	26.71	391.48	2564.53	109.81	
ARITH. STD. DEV.	1.984	21.988	0.245	116.00	30.63	183.81	2718.88	79.36	
GEOM. MEAN	2.123	30.436	0.506	154.66	9.68	346.32	1324.44	79.01	
1ST QUARTILE	1.425	28.120	0.256	78.00	0.00	232.65	411.58	23.00	
2ND QUARTILE	1.680	30.240	0.310	222.60	14.40	350.00	882.00	78.00	
3RD QUARTILE	3.600	32.592	0.475	279.00	38.40	527.00	6400.00	155.00	
VOL. WGT. MEAN	2.836	36.685	0.386	196.49	47.46	360.70	2525.35	112.71	
MISSING VALUES	0	0	0	0	0	1	6	1	

	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	9	9	9	9	9	9	9	
MAXIMUM	39.68	1664.00	323.40	44.72	80.64	11733.50	8134.52	
MINIMUM	3.00	240.00	10.20	0.00	0.00	1020.00	444.57	
ARITH. MEAN	10.31	761.40	108.83	10.56	13.72	5686.08	3834.84	
ARITH. STD. DEV.	10.70	407.37	86.43	13.58	24.93	3258.64	2309.82	
GEOM. MEAN	7.52	660.93	78.70	5.03	3.73	4493.61	2886.88	
1ST QUARTILE	4.80	497.00	52.50	0.00	0.00	3183.60	1964.49	
2ND QUARTILE	6.24	660.00	94.86	5.46	0.00	5966.00	4247.67	
3RD QUARTILE	8.55	985.60	102.00	16.64	13.86	7467.20	5214.47	
VOL. WGT. MEAN	10.31	761.40	107.33	13.63	33.55	5686.08	3834.84	
MISSING VALUES	0	0	1	0	0	0	0	

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: MATTAWA MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
10	10	10	10	10	10	10	10	10
MAXIMUM	162.3	340.83	70.65	22.08	18.20	81.640	3.140	3.925
MINIMUM	24.0	89.10	9.12	3.84	0.66	9.500	0.600	0.600
ARITH. MEAN	86.2	193.28	35.45	11.92	7.33	30.151	2.074	2.504
ARITH. STD. DEV.	46.5	72.47	20.62	5.53	5.12	19.974	0.755	1.076
GEOM. MEAN	73.2	180.07	29.10	10.57	5.24	24.985	1.882	2.215
1ST QUARTILE	50.0	145.25	18.90	7.92	4.90	17.850	1.650	1.750
2ND QUARTILE	70.0	176.25	29.97	11.21	6.14	23.830	2.282	2.207
3RD QUARTILE	130.0	237.85	57.96	13.65	9.66	36.400	2.625	3.550
VOL. WGT. MEAN		193.28	35.45	11.92	7.33	30.151	2.074	2.504
MISSING VALUES	0	0	0	0	0	0	0	0

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
10	10	10	10	10	10	10	10	10
MAXIMUM	12.350	78.814	1.136	442.00	247.00	705.60	9020.64	389.40
MINIMUM	0.000	6.996	0.000	43.20	0.00	150.50	891.80	42.00
ARITH. MEAN	3.556	26.864	0.471	187.80	45.23	385.44	4257.48	161.44
ARITH. STD. DEV.	3.443	19.974	0.432	102.37	70.56	190.19	3462.58	104.10
GEOM. MEAN	2.534	21.123	0.494	160.19	14.14	334.39	2844.18	130.51
1ST QUARTILE	1.420	10.848	0.072	137.20	5.25	171.60	891.80	55.20
2ND QUARTILE	2.705	23.518	0.253	183.77	18.05	455.40	2860.00	140.50
3RD QUARTILE	4.900	34.083	0.942	219.80	50.24	494.00	9020.64	152.29
VOL. WGT. MEAN	3.851	26.864	0.546	187.80	53.77	371.66	2860.70	150.23
MISSING VALUES	0	0	0	0	0	3	7	2

# OF SAMPLES	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
10	10	10	10	10	10	10	10
MAXIMUM	31.40	2548.00	1014.00	65.66	48.67	8910.27	5251.93
MINIMUM	2.64	237.60	70.00	0.00	0.00	1972.80	1657.85
ARITH. MEAN	10.09	846.70	259.92	11.20	12.91	5383.72	3472.39
ARITH. STD. DEV.	8.29	625.84	338.79	19.05	14.18	2344.66	1241.52
GEOM. MEAN	7.69	686.24	151.92	4.00	6.45	4792.63	3209.44
1ST QUARTILE	4.56	550.00	85.80	0.00	0.00	2857.80	1879.61
2ND QUARTILE	6.81	657.10	108.50	4.14	10.80	5425.40	3759.37
3RD QUARTILE	13.80	1014.00	172.70	13.00	19.50	7553.00	4304.70
VOL. WGT. MEAN	10.09	846.70	241.43	20.20	17.17	5383.72	3472.39
MISSING VALUES	0	0	4	0	0	0	0

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: GOWGANDA MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	FREEH+			
										ACIDITY GRAN	LAB	UG/M**2	UG/M**2
										UG/M**2			
:	10												
MAXIMUM	130.0		487.50	59.80	26.00	13.00	63.700	10.450	5.700				
MINIMUM	27.0		32.30	7.48	1.88	0.00	6.480	0.270	0.340				
ARITH. MEAN	66.1		142.81	19.77	6.85	4.84	20.079	2.199	2.223				
ARITH. STD. DEV.	32.9		127.25	14.98	7.07	4.22	15.791	3.007	1.750				
GEOM. MEAN	58.6		103.43	16.04	4.77	3.57	15.953	1.121	1.584				
1ST QUARTILE	40.0		56.00	11.40	2.97	1.89	9.600	0.510	0.900				
2ND QUARTILE	58.0		106.75	13.52	3.48	3.21	17.735	0.750	1.600				
3RD QUARTILE	95.0		176.00	20.40	10.00	6.00	22.000	2.000	3.920				
VOL. WGT. MEAN	.		142.81	19.77	6.85	5.65	20.079	2.199	2.223				
MISSING VALUES	0		0	0	0	0	0	0	0				

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	FREEH+			
									ACIDITY GRAN	LAB	UG/M**2	UG/M**2
									UG/M**2			
:	10											
MAXIMUM	7.840	57.720	1.425	312.00	190.40	750.40	22292.19	291.20				
MINIMUM	0.000	4.012	0.000	32.40	0.00	95.20	284.00	19.00				
ARITH. MEAN	2.195	16.072	0.403	107.87	43.45	259.87	4909.70	66.15				
ARITH. STD. DEV.	2.088	14.750	0.419	80.22	64.42	224.96	7802.09	85.84				
GEOM. MEAN	1.789	11.962	0.341	84.67	15.77	193.46	1213.91	41.84				
1ST QUARTILE	1.020	8.550	0.112	47.60	9.18	102.00	297.00	20.16				
2ND QUARTILE	1.455	11.132	0.268	90.00	10.88	136.30	665.50	37.11				
3RD QUARTILE	3.000	17.920	0.448	145.60	28.40	416.00	1344.00	46.80				
VOL. WGT. MEAN	2.563	16.072	0.425	107.87	54.08	225.17	5130.92	74.27				
MISSING VALUES	0	0	0	0	0	3	2	2				

# OF SAMPLES	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
:	10						
MAXIMUM	13.00	2912.00	190.40	71.68	17.10	8606.00	8015.74
MINIMUM	2.38	192.00	17.86	0.00	0.00	1356.60	565.06
ARITH. MEAN	6.03	775.15	75.67	8.52	5.58	3781.99	2558.59
ARITH. STD. DEV.	3.25	848.01	62.83	21.12	6.46	2114.46	2119.12
GEOM. MEAN	5.23	465.99	53.51	2.45	3.20	3238.85	1884.68
1ST QUARTILE	3.00	206.80	19.04	0.00	0.00	1781.30	1042.77
2ND QUARTILE	5.63	260.80	47.80	1.08	2.97	3730.00	1861.05
3RD QUARTILE	7.20	1380.00	79.30	3.92	8.40	5136.00	3615.36
VOL. WGT. MEAN	6.03	775.15	66.69	20.40	13.57	3781.99	2558.59
MISSING VALUES	0	0	2	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: MOONBEAM MIC TYPE A SITE NO.1

EQUIVALENT
 PREC. DEPTH
 MM

# OF SAMPLES	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
MAXIMUM	8	8	8	8	8	8	8
MINIMUM	115.0	37.95	18.62	81.34	102.900	3.920	22.125
ARITH. MEAN	31.0	6.50	3.12	1.50	5.070	0.390	0.310
ARITH. STD. DEV.	63.4	16.55	9.28	16.13	31.066	1.930	6.563
GEOM. MEAN	27.9	8.67	5.23	25.36	28.634	1.072	7.172
1ST QUARTILE	57.8	14.82	7.74	6.93	22.144	1.569	2.904
2ND QUARTILE	39.0	11.76	3.50	3.12	11.500	0.750	0.390
3RD QUARTILE	50.0	14.85	8.69	4.94	24.500	2.008	3.063
VOL. WGT. MEAN	75.0	15.99	12.00	8.05	30.750	2.500	9.065
MISSING VALUES	0	16.55	9.28	16.13	31.066	1.930	6.563
		0	0	0	0	0	0

# OF SAMPLES	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
MAXIMUM	8	8	8	8	8	8	8
MINIMUM	61.250	5.145	330.00	120.00	1575.00	632.50	333.50
ARITH. MEAN	1.085	0.000	1.98	0.00	117.80	240.10	14.04
ARITH. STD. DEV.	12.124	1.035	159.87	40.19	742.65	389.03	78.48
GEOM. MEAN	19.089	1.640	94.05	41.66	637.21	173.58	106.51
1ST QUARTILE	4.751	0.755	128.66	17.96	425.10	354.96	42.53
2ND QUARTILE	1.250	0.000	78.40	6.50	127.40	240.10	20.25
3RD QUARTILE	4.208	0.360	148.90	16.14	519.00	294.50	31.00
VOL. WGT. MEAN	8.625	0.450	205.80	72.45	1380.00	632.50	88.20
MISSING VALUES	12.124	1.201	159.87	44.59	742.65	379.31	76.19
	0	0	0	0	0	5	1

FREH+
 LAB
 UG/M**2

ACIDITY GRAN
 UG/M**2

ARSENIC
 UG/M**2

CADMIUM
 UG/M**2

COPPER
 UG/M**2

ALUMINUM
 UG/M**2

VANADIUM
 UG/M**2

# OF SAMPLES	ACIDITY GRAN UG/M**2	ARSENIC UG/M**2	CADMIUM UG/M**2	COPPER UG/M**2	ALUMINUM UG/M**2	VANADIUM UG/M**2	FREH+ LAB UG/M**2
MAXIMUM	8	8	8	8	8	8	8
MINIMUM	5577.50	18.62	3220.00	254.80	4715.00	13.80	3636.62
ARITH. MEAN	1430.80	0.00	0.00	31.00	100.00	3.00	45.19
ARITH. STD. DEV.	2421.64	5.74	436.79	117.84	879.63	5.90	1085.93
GEOM. MEAN	1269.19	6.54	1054.21	86.81	1454.05	3.36	1094.81
1ST QUARTILE	2191.51	3.27	18.44	86.00	423.13	5.17	546.00
2ND QUARTILE	1530.00	0.00	2.79	39.00	225.40	3.12	135.28
3RD QUARTILE	2101.00	3.26	6.89	60.75	394.50	4.71	892.43
VOL. WGT. MEAN	2312.80	10.00	36.26	207.00	434.00	6.75	1321.49
MISSING VALUES	2421.64	12.76	484.58	109.82	879.63	5.90	1085.93
	0	0	0	1	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: WHITNEY MIC TYPE A SITE NO.1

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	2							
MAXIMUM	56.0	90.20	31.24	16.72	4.84	21.560	1.980	1.100
MINIMUM	44.0	58.80	23.52	6.16	3.36	12.880	0.560	0.840
ARITH. MEAN	50.0	74.50	27.38	11.44	4.10	17.220	1.270	0.970
ARITH. STD. DEV.	6.0	15.70	3.86	5.28	0.74	4.340	0.710	0.130
GEOM. MEAN	49.6	72.83	27.11	10.15	4.03	16.664	1.053	0.961
1ST QUARTILE	44.0	58.80	23.52	6.16	3.36	12.880	0.560	0.840
2ND QUARTILE	50.0	74.50	27.38	11.44	4.10	17.220	1.270	0.970
3RD QUARTILE	56.0	90.20	31.24	16.72	4.84	21.560	1.980	1.100
VOL. WGT. MEAN		74.50	27.38	11.44	4.10	17.220	1.270	0.970
MISSING VALUES	0	0	0	0	0	0	0	0
		AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	2							
MAXIMUM	3.300	16.808	0.352	162.80	16.24	190.40	551.49	78.40
MINIMUM	1.400	9.408	0.112	156.80	11.00	180.40	346.54	78.40
ARITH. MEAN	2.350	13.108	0.232	159.80	13.62	185.40	449.01	78.40
ARITH. STD. DEV.	0.950	3.700	0.120	3.00	2.62	5.00	102.47	0.00
GEOM. MEAN	2.149	12.575	0.199	159.77	13.37	185.33	437.16	78.40
1ST QUARTILE	1.400	9.408	0.112	156.80	11.00	180.40	346.54	78.40
2ND QUARTILE	2.350	13.108	0.232	159.80	13.62	185.40	449.01	78.40
3RD QUARTILE	3.300	16.808	0.352	162.80	16.24	190.40	551.49	78.40
VOL. WGT. MEAN		13.108	0.232	159.80	13.62	185.40	449.01	70.00
MISSING VALUES	0	0	0	0	0	0	0	1
		VANADIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	2							
MAXIMUM	9.24	1008.00	41.44	7.84	11.44	3136.00	1792.47	2
MINIMUM	7.84	836.00	23.76	3.08	0.00	2450.80	1770.88	2
ARITH. MEAN	8.54	922.00	32.60	5.46	5.72	2793.40	1781.67	2
ARITH. STD. DEV.	0.70	86.00	8.84	2.38	5.72	342.60	10.80	2
GEOM. MEAN	8.51	917.98	31.38	4.91	3.38	2772.31	1781.64	2
1ST QUARTILE	7.84	836.00	23.76	3.08	0.00	2450.80	1770.88	2
2ND QUARTILE	8.54	922.00	32.60	5.46	5.72	2793.40	1781.67	2
3RD QUARTILE	9.24	1008.00	41.44	7.84	11.44	3136.00	1792.47	2
VOL. WGT. MEAN		922.00	32.60	5.46	13.00	2793.40	1781.67	2
MISSING VALUES	0	0	0	0	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: TURKEY LAKES MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDHAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
MAXIMUM	263.0	828.45	144.65	73.64	21.04	152.540	21.040	28.930	11.835	2.367	4471.00	473.40	11572.00	3419.00	867.90
MINIMUM	37.0	88.40	18.72	7.90	3.16	23.200	1.580	0.925	1.110	0.000	92.80	0.00	181.30	373.64	13.77
ARITH. MEAN	98.0	261.16	46.01	23.46	8.85	54.679	5.301	5.096	4.125	0.621	696.17	56.84	1671.05	1406.36	157.61
ARITH. STD. DEV.	61.4	205.67	35.78	19.77	5.98	37.579	5.788	8.027	3.225	0.683	1266.18	139.18	3743.10	1183.02	254.39
GEOM. MEAN	84.4	209.93	37.38	17.78	7.05	45.384	3.582	2.760	3.106	0.612	322.27	9.10	395.16	1017.61	68.63
1ST QUARTILE	58.0	136.90	21.83	10.20	3.76	27.040	2.220	1.450	1.450	0.111	159.80	0.00	186.30	373.64	17.38
2ND QUARTILE	80.0	212.50	34.21	12.94	5.53	40.370	2.345	2.710	2.880	0.430	269.00	12.12	234.00	916.40	85.80
3RD QUARTILE	118.0	265.50	57.82	29.90	14.16	71.280	5.200	3.900	6.075	0.790	390.00	16.32	342.20	936.00	118.00
VOL. WGT. MEAN	.	261.16	46.01	23.46	8.85	54.679	5.301	5.096	4.124	0.699	696.17	78.13	1534.08	1122.80	152.43
MISSING VALUES	0	0	0	0	0	0	0	0	0	0	0	0	2	6	1

FREH+
LAB

# OF SAMPLES	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FRESH+ LAB UG/M**2
10	10	10	10	10	10	10	10
MAXIMUM	52.60	8416.00	50.70	315.60	53.10	19698.70	12587.97
MINIMUM	5.55	234.90	9.68	0.00	0.00	2236.00	755.94
ARITH. MEAN	14.77	1268.04	25.13	35.93	10.14	5781.01	3434.04
ARITH. STD. DEV.	15.44	2391.91	16.67	93.44	15.82	4976.47	3276.40
GEOM. MEAN	10.20	573.40	19.88	4.38	3.83	4530.93	2503.32
1ST QUARTILE	5.72	276.50	9.68	0.00	0.00	2671.40	1507.31
2ND QUARTILE	7.30	423.80	20.07	2.82	2.41	4301.70	2572.99
3RD QUARTILE	11.70	754.00	29.23	11.84	13.16	6277.60	3646.55
VOL. WGT. MEAN	14.77	1268.04	29.94	60.70	26.92	5781.01	3434.04
MISSING VALUES	0	0	6	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: MOOSENEE MIC TYPE A SITE NO.1

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	7							
MAXIMUM	125.0	126.00	19.76	153.40	112.97	27.600	25.700	4.345
MINIMUM	20.0	41.00	4.83	4.80	2.45	10.350	1.200	0.735
ARITH. MEAN	73.4	87.07	12.27	30.04	31.85	17.811	7.447	2.506
ARITH. STD. DEV.	35.4	30.97	5.48	50.66	43.09	7.173	7.829	1.249
GEOM. MEAN	63.5	80.61	10.88	12.38	11.27	16.429	4.713	2.109
1ST QUARTILE	49.0	48.30	5.60	4.83	4.20	11.000	1.960	0.900
2ND QUARTILE	69.0	104.00	13.20	7.50	6.24	13.230	5.175	2.760
3RD QUARTILE	120.0	112.50	18.96	21.84	84.87	27.500	8.125	3.600
VOL. WGT. MEAN		87.07	12.27	30.04	31.85	17.811	7.447	2.506
MISSING VALUES	0	0	0	0	0	0	0	0

SODIUM MG/M**2		AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	7							
MAXIMUM	70.705	22.256	1.250	124.80	79.00	1343.00	720.00	205.40
MINIMUM	1.875	4.692	0.000	46.00	0.00	34.00	265.20	5.00
ARITH. MEAN	18.620	13.620	0.358	86.34	16.71	381.03	513.41	55.19
ARITH. STD. DEV.	26.123	6.025	0.385	26.36	27.01	443.03	185.19	68.48
GEOM. MEAN	6.217	12.040	0.363	81.85	4.24	206.91	476.23	29.04
1ST QUARTILE	2.205	6.880	0.147	54.51	0.00	93.10	265.20	14.49
2ND QUARTILE	3.000	12.324	0.237	93.10	0.00	226.80	534.23	30.76
3RD QUARTILE	46.575	18.750	0.440	110.60	26.00	362.50	660.77	44.72
VOL. WGT. MEAN	18.620	13.620	0.467	86.34	56.88	377.24	566.90	61.71
MISSING VALUES	0	0	0	0	0	1	3	1

VANADIUM UG/M**2		ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	7						
MAXIMUM	11.96	2844.00	126.40	1027.00	22.36	2883.50	1984.39
MINIMUM	1.38	158.70	21.56	0.00	0.00	80.60	0.28
ARITH. MEAN	5.25	659.13	60.33	147.75	5.77	1710.07	631.17
ARITH. STD. DEV.	2.98	906.96	35.36	358.96	8.15	933.97	670.07
GEOM. MEAN	4.49	363.77	51.35	3.58	2.82	1137.98	127.87
1ST QUARTILE	4.00	168.00	43.68	0.00	0.00	1190.70	48.63
2ND QUARTILE	4.80	262.50	50.00	0.00	0.00	1727.80	492.30
3RD QUARTILE	5.00	680.00	60.00	7.28	13.20	2650.00	769.14
VOL. WGT. MEAN	5.25	659.13	52.12	579.74	15.44	1912.20	705.78
MISSING VALUES	0	0	2	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: MCFARLANE LAKE MIC TYPE A SITE NO.1

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	129.0	335.40	56.68	23.40	18.81	55.350	4.950	3.270
MINIMUM	3.0	21.45	0.99	0.96	0.36	2.370	0.150	0.120
ARITH. MEAN	78.1	206.93	32.50	11.51	8.49	30.596	2.086	1.726
ARITH. STD. DEV.	41.0	102.45	16.77	6.54	5.85	14.431	1.269	0.916
GEOM. MEAN	57.0	165.19	23.37	8.92	5.61	24.374	1.585	1.322
1ST QUARTILE	45.0	143.10	22.80	6.93	2.97	17.670	1.200	0.855
2ND QUARTILE	78.0	214.50	31.38	10.35	7.02	36.355	1.813	1.648
3RD QUARTILE	120.0	297.00	45.15	17.22	14.17	38.700	2.580	2.460
VOL. WGT. MEAN	0	206.93	32.50	11.51	8.49	30.596	2.086	1.726
MISSING VALUES	0	0	0	0	0	0	0	0

SODIUM MG/M**2		AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	10	10	10	10	10	10	10	10
MAXIMUM	13.625	57.072	0.630	328.50	1230.00	1853.00	2616.00	479.70
MINIMUM	0.000	1.896	0.000	10.50	33.00	210.70	114.00	30.00
ARITH. MEAN	4.332	28.722	0.260	153.66	364.02	586.17	904.04	239.81
ARITH. STD. DEV.	4.535	14.903	0.207	77.77	334.65	573.17	881.64	156.05
GEOM. MEAN	2.341	22.019	0.330	121.20	235.27	428.27	567.68	177.52
1ST QUARTILE	0.860	13.588	0.039	128.70	123.84	265.00	433.20	86.00
2ND QUARTILE	2.205	33.913	0.272	148.85	289.15	348.15	615.00	243.45
3RD QUARTILE	7.380	35.828	0.436	172.20	473.10	492.00	742.00	414.20
VOL. WGT. MEAN	4.960	28.722	0.338	153.66	364.02	476.04	1023.27	239.81
MISSING VALUES	0	0	0	0	0	4	5	0

VANADIUM UG/M**2		ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	10	10	10	10	10	10	10
MAXIMUM	22.14	4142.00	1599.00	119.90	168.00	8475.30	6418.40
MINIMUM	0.78	144.00	185.50	0.00	0.00	164.70	261.29
ARITH. MEAN	8.86	1053.91	733.42	25.29	51.05	5290.80	3597.14
ARITH. STD. DEV.	5.56	1110.10	489.70	33.60	58.06	2637.60	1782.78
GEOM. MEAN	6.90	704.44	575.77	11.94	18.59	3841.61	2835.76
1ST QUARTILE	6.75	435.60	316.10	9.03	6.60	3492.00	2431.50
2ND QUARTILE	7.56	673.05	540.00	12.35	29.46	5322.60	3244.61
3RD QUARTILE	8.60	1135.20	1026.00	34.44	77.49	7712.10	5238.19
VOL. WGT. MEAN	8.86	1053.91	662.63	30.29	63.39	5290.80	3597.14
MISSING VALUES	0	0	1	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: HANMER-2 MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
:	11	11	11	11	11	11	11	11
MAXIMUM	128.0	323.30	56.18	18.24	32.85	53.760	3.600	11.660
MINIMUM	17.0	72.25	7.82	4.28	1.07	13.770	1.070	0.680
ARITH. MEAN	72.2	181.72	31.61	9.17	9.14	27.067	1.830	2.575
ARITH. STD. DEV.	33.0	72.46	14.23	4.05	8.42	10.936	0.739	3.107
GEOM. MEAN	63.4	166.21	27.90	8.36	6.22	25.146	1.707	1.739
1ST QUARTILE	48.0	112.70	22.68	5.44	4.41	18.190	1.260	1.200
2ND QUARTILE	63.0	187.25	27.56	8.73	6.72	26.360	1.600	1.478
3RD QUARTILE	106.0	232.30	43.07	10.24	10.60	30.240	1.960	2.140
VOL. WGT. MEAN	.	181.72	31.61	9.18	9.14	27.098	1.832	2.577
MISSING VALUES	0	0	0	1	0	1	1	1

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
:	11	11	11	11	11	11	11	11
MAXIMUM	6.360	49.408	1.272	423.40	408.80	24617.06	1530.00	3103.00
MINIMUM	0.000	9.622	0.000	54.40	15.64	83.30	357.00	32.30
ARITH. MEAN	2.836	24.190	0.296	165.89	205.47	3005.44	897.13	560.18
ARITH. STD. DEV.	2.137	10.249	0.365	102.80	106.77	7642.41	415.82	968.64
GEOM. MEAN	2.207	22.196	0.590	138.59	155.87	429.18	800.76	220.17
1ST QUARTILE	1.150	15.476	0.000	75.60	151.20	193.80	652.80	96.00
2ND QUARTILE	2.058	23.562	0.280	142.10	214.20	249.90	732.50	174.30
3RD QUARTILE	4.480	28.714	0.384	235.20	275.60	455.80	1378.00	371.20
VOL. WGT. MEAN	3.333	24.190	0.467	165.89	205.47	2850.28	916.37	568.50
MISSING VALUES	1	0	1	0	0	2	5	3

# OF SAMPLES	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
:	11	11	11	11	11	11	11
MAXIMUM	19.20	2544.00	730.00	102.20	179.20	8713.20	6535.91
MINIMUM	2.12	374.00	50.60	0.00	0.00	1387.20	777.05
ARITH. MEAN	8.89	996.44	401.03	25.03	45.49	5108.63	3468.35
ARITH. STD. DEV.	5.80	715.88	200.81	27.73	53.02	2012.91	1477.68
GEOM. MEAN	7.04	809.82	317.28	13.88	18.68	4614.10	3068.15
1ST QUARTILE	3.68	506.00	321.30	6.24	6.63	4171.80	2802.66
2ND QUARTILE	7.49	791.80	402.80	15.68	27.01	4920.25	3477.64
3RD QUARTILE	14.28	1173.00	563.20	35.84	56.10	6561.40	4292.97
VOL. WGT. MEAN	8.89	996.44	388.55	26.57	56.26	5114.43	3472.28
MISSING VALUES	0	0	1	0	0	1	1

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: DORION MIC TYPE A SITE NO.1

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	134.6	141.33	32.30	25.66	6.48	43.247	5.131	4.600
MINIMUM	19.8	20.64	5.15	1.98	1.41	4.386	0.396	0.396
ARITH. MEAN	57.3	72.61	16.59	9.26	3.51	22.439	1.775	2.100
ARITH. STD. DEV.	30.0	43.37	8.47	6.31	1.76	14.062	1.190	1.397
GEOM. MEAN	50.1	58.52	14.33	7.27	3.06	17.181	1.429	1.590
1ST QUARTILE	38.0	32.90	8.43	4.96	1.84	9.660	1.150	0.741
2ND QUARTILE	49.4	62.10	14.55	9.18	3.04	22.980	1.380	1.725
3RD QUARTILE	73.3	114.00	24.19	10.77	5.13	33.657	2.160	3.365
VOL. WGT. MEAN	.	72.61	16.59	9.26	3.51	22.439	1.775	2.100
MISSING VALUES	0	0	0	0	0	0	0	0

SODIUM MG/M**2		AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	5.187	34.996	2.106	425.14	37.69	437.10	743.19	65.80
MINIMUM	0.000	0.000	0.000	33.84	0.00	59.80	286.83	1.43
ARITH. MEAN	2.386	17.774	0.702	154.09	10.86	164.06	460.57	20.94
ARITH. STD. DEV.	1.598	12.087	0.711	96.80	11.89	120.16	199.85	18.94
GEOM. MEAN	2.067	12.080	0.519	126.55	5.63	131.34	422.74	13.17
1ST QUARTILE	1.240	6.204	0.269	101.68	0.00	75.83	319.56	8.08
2ND QUARTILE	1.782	16.699	0.387	153.14	6.44	111.68	336.42	14.33
3RD QUARTILE	3.665	29.860	0.806	161.52	15.53	224.20	741.00	27.58
VOL. WGT. MEAN	2.543	18.412	0.749	154.09	16.24	175.71	483.15	21.22
MISSING VALUES	0	0	0	0	0	3	7	2

VANADIUM UG/M**2		ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	13	13	13	13	13	13	13
MAXIMUM	10.64	988.00	41.73	7.22	19.76	4159.14	1442.26
MINIMUM	0.00	92.00	6.44	0.00	0.00	568.26	54.05
ARITH. MEAN	3.89	408.86	20.52	1.57	4.26	1791.14	665.24
ARITH. STD. DEV.	2.61	276.20	12.72	2.19	5.95	992.89	425.85
GEOM. MEAN	3.31	329.25	16.29	1.63	2.58	1538.10	485.18
1ST QUARTILE	2.38	243.00	7.28	0.00	0.00	949.44	428.17
2ND QUARTILE	3.29	296.70	17.94	0.00	0.00	1451.34	548.09
3RD QUARTILE	4.45	431.50	31.49	1.98	5.16	2274.80	959.62
VOL. WGT. MEAN	4.75	408.86	20.36	4.98	12.27	1791.14	665.24
MISSING VALUES	0	0	4	0	0	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

STATION: EAR FALLS MIC TYPE A SITE NO.1

EQUIVALENT
 PREC. DEPTH
 MM

# OF SAMPLES	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
MAXIMUM	3	3	3	3	3	3	3
MINIMUM	55.7	7.80	10.58	5.69	7.241	1.393	1.393
ARITH. MEAN	23.7	6.40	3.38	3.00	2.133	0.563	0.375
ARITH. STD. DEV.	39.0	6.98	6.79	4.57	4.125	0.968	0.826
GEOM. MEAN	13.1	0.59	2.96	1.14	2.232	0.339	0.423
1ST QUARTILE	36.7	6.96	6.11	4.41	3.592	0.906	0.719
2ND QUARTILE	23.7	6.40	3.38	3.00	2.133	0.563	0.375
3RD QUARTILE	37.5	6.75	6.40	5.01	3.000	0.948	0.711
VOL. WGT. MEAN	55.7	7.80	10.58	5.69	7.241	1.393	1.393
MISSING VALUES	0	0	6.79	4.57	4.125	0.968	0.826
			0	0	0	0	0

# OF SAMPLES	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
MAXIMUM	3	3	3	3	3	3	3
MINIMUM	7.018	0.338	194.95	16.50	51.24	1058.30	72.41
ARITH. MEAN	0.047	0.190	56.25	6.16	51.24	431.96	72.41
ARITH. STD. DEV.	2.705	0.287	120.07	9.78	51.24	745.13	72.41
GEOM. MEAN	3.077	0.069	57.16	4.76	0.00	313.17	0.00
1ST QUARTILE	0.704	0.278	106.13	8.79	51.24	676.12	72.41
2ND QUARTILE	0.047	0.190	56.25	6.16	51.24	431.96	72.41
3RD QUARTILE	1.050	0.334	109.02	6.68	51.24	745.13	72.41
VOL. WGT. MEAN	7.018	0.338	194.95	16.50	51.24	1058.30	72.41
MISSING VALUES	2.705	0.287	120.07	9.78	35.85	623.07	50.66
	0	0	0	0	2	1	2

VANADIUM
 UG/M**2

ALUMINIUM
 UG/M**2

COPPER
 UG/M**2

CADMIUM
 UG/M**2

ARSENIC
 UG/M**2

ACIDITY GRAN
 UG/M**2

FREEH+
 LAB
 UG/M**2

# OF SAMPLES	3	3	3	3	3	3	3
MAXIMUM	6.13	675.00	.	8.36	17.27	1687.71	505.86
MINIMUM	1.50	529.15	.	0.00	4.50	490.59	402.48
ARITH. MEAN	3.57	602.08	.	3.26	10.81	1157.35	450.26
ARITH. STD. DEV.	1.92	72.93	.	3.65	5.21	498.15	42.56
GEOM. MEAN	3.05	597.64	.	2.28	9.39	1023.19	448.28
1ST QUARTILE	1.50	529.15	.	0.00	4.50	490.59	402.48
2ND QUARTILE	3.08	602.08	.	1.42	10.67	1293.75	442.44
3RD QUARTILE	6.13	675.00	.	8.36	17.27	1687.71	505.86
VOL. WGT. MEAN	3.57	503.45	0.00	4.80	10.81	1157.35	450.26
MISSING VALUES	0	1	3	0	0	0	0

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

STATION: PICKLE LAKE MIC TYPE A SITE NO.1

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	82.0	89.57	18.60	15.16	6.22	39.962	3.790	11.060
MINIMUM	7.1	2.01	1.28	0.00	0.40	0.000	0.000	0.000
ARITH. MEAN	44.9	42.78	9.33	5.69	2.34	15.169	1.354	2.213
ARITH. STD. DEV.	24.2	26.35	5.60	4.28	1.89	11.342	1.029	2.737
GEOM. MEAN	35.9	30.07	6.97	4.00	1.65	10.012	1.050	1.345
1ST QUARTILE	17.0	17.85	5.29	3.23	0.85	4.205	0.814	0.725
2ND QUARTILE	51.0	42.38	10.27	5.53	2.37	12.580	1.076	1.358
3RD QUARTILE	56.5	59.25	13.26	6.46	2.72	22.120	1.580	2.805
VOL. WGT. MEAN	.	42.78	9.33	5.76	2.34	15.525	1.370	2.240
MISSING VALUES	0	0	0	0	0	0	0	0

SODIUM MG/M**2		AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	13	13	13	13	13	13	13	13
MAXIMUM	3.790	29.489	1.585	392.73	48.51	130.32	814.50	27.15
MINIMUM	0.000	0.027	0.000	7.24	0.00	8.98	120.02	0.60
ARITH. MEAN	1.260	11.343	0.445	123.92	8.81	72.93	408.59	15.27
ARITH. STD. DEV.	0.880	8.987	0.566	108.44	12.77	37.46	211.54	10.35
GEOM. MEAN	1.152	5.686	0.485	80.70	4.53	58.03	351.98	8.39
1ST QUARTILE	0.765	3.393	0.000	46.40	0.00	33.18	285.65	5.51
2ND QUARTILE	1.230	10.534	0.168	75.73	6.11	73.28	382.00	19.91
3RD QUARTILE	1.413	15.029	0.663	151.20	7.60	86.08	467.40	23.20
VOL. WGT. MEAN	1.276	11.343	0.568	115.80	13.73	73.39	376.52	16.73
MISSING VALUES	0	0	0	1	1	5	7	8

VANADIUM UG/M**2		ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	13	13	13	13	13	13	13
MAXIMUM	10.22	434.07	76.83	5.43	25.82	2320.60	1395.72
MINIMUM	0.00	14.74	3.00	0.00	0.00	171.11	15.15
ARITH. MEAN	3.18	184.02	18.80	2.31	4.61	1160.55	339.33
ARITH. STD. DEV.	2.14	141.91	26.07	1.68	8.00	599.32	379.69
GEOM. MEAN	0.34	138.60	9.96	0.00	2.23	944.74	176.97
1ST QUARTILE	2.13	159.50	6.78	0.00	0.00	829.40	91.63
2ND QUARTILE	4.82	219.30	7.40	0.00	0.00	1121.40	227.81
3RD QUARTILE	3.30	182.66	11.42	3.77	3.63	1587.90	326.92
VOL. WGT. MEAN	.	182.66	21.61	4.30	12.32	1160.55	339.33
MISSING VALUES	1	2	7	1	1	0	0

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: QUETICO CENTRE MIC TYPE A SITE NO.1

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	13	
MAXIMUM	118.8	124.74	24.95	23.63	5.94	87.400	3.025	10.070	
MINIMUM	17.1	7.70	4.10	2.66	0.88	1.881	0.000	0.000	
ARITH. MEAN	55.7	56.35	13.56	8.73	3.31	20.222	1.373	2.029	
ARITH. STD. DEV.	30.9	32.93	5.82	6.37	1.35	22.081	0.898	2.545	
GEOM. MEAN	47.2	43.10	12.10	6.77	2.98	12.284	1.196	1.563	
1ST QUARTILE	28.4	35.53	8.74	3.42	2.41	6.090	0.723	0.362	
2ND QUARTILE	53.2	62.50	15.43	5.96	3.45	11.836	1.330	1.750	
3RD QUARTILE	76.2	74.38	16.76	11.43	4.08	26.250	1.905	2.550	
VOL. WGT. MEAN	.	56.35	13.56	8.73	3.31	20.222	1.483	2.448	
MISSING VALUES	0	0	0	0	0	0	0	0	

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	13	
MAXIMUM	5.940	33.739	3.154	280.00	12.00	350.00	1116.50	30.60	
MINIMUM	0.570	0.547	0.000	2.66	0.00	52.78	285.69	2.41	
ARITH. MEAN	2.477	15.576	0.441	135.85	4.70	146.48	552.87	15.18	
ARITH. STD. DEV.	1.237	10.814	0.801	83.91	4.24	82.56	302.95	8.76	
GEOM. MEAN	2.195	9.597	0.404	92.66	3.37	126.36	486.54	12.16	
1ST QUARTILE	1.881	4.913	0.057	86.76	0.00	86.08	358.85	8.75	
2ND QUARTILE	2.049	18.346	0.291	102.60	5.40	143.72	385.60	13.01	
3RD QUARTILE	2.538	23.275	0.377	198.12	7.98	184.60	617.73	23.57	
VOL. WGT. MEAN	2.477	15.576	0.618	135.85	10.64	140.44	605.50	13.73	
MISSING VALUES	0	0	0	0	0	3	8	3	

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	13	13	13	13	13	13	13	
MAXIMUM	9.18	650.70	39.78	9.15	16.76	8769.40	1108.71	
MINIMUM	0.53	64.60	5.48	0.00	0.00	515.74	10.47	
ARITH. MEAN	3.69	373.89	14.97	2.62	5.00	2102.07	487.96	
ARITH. STD. DEV.	2.67	167.58	9.99	3.34	6.01	2081.48	386.68	
GEOM. MEAN	2.81	323.00	12.47	2.11	3.01	1523.85	264.38	
1ST QUARTILE	1.88	243.84	7.73	0.00	0.00	872.90	112.72	
2ND QUARTILE	2.20	387.36	11.78	0.00	2.89	1793.75	395.82	
3RD QUARTILE	4.84	487.20	18.50	3.65	6.99	2186.94	868.16	
VOL. WGT. MEAN	3.69	373.89	14.77	9.81	12.25	2102.07	487.96	
MISSING VALUES	0	0	4	0	0	0	0	

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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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STATION: E.L.A. MIC TYPE A SITE NO.1

# OF SAMPLES	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDHAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
13	13	13	13	13	13	13	13	13
MAXIMUM	145.0	86.80	25.42	14.88	9.06	48.980	3.080	4.340
MINIMUM	11.0	11.50	3.96	1.25	1.12	2.717	0.209	0.000
ARITH. MEAN	40.3	39.55	11.14	7.53	3.19	15.338	1.507	1.155
ARITH. STD. DEV.	32.8	23.02	6.07	3.95	1.97	12.638	0.909	1.135
GEOM. MEAN	32.6	33.45	9.78	6.29	2.75	11.139	1.206	0.986
1ST QUARTILE	22.1	22.33	7.28	4.07	2.02	6.308	0.812	0.406
2ND QUARTILE	31.0	29.88	8.51	6.97	2.84	13.440	1.450	0.880
3RD QUARTILE	43.0	50.75	11.00	10.75	3.47	18.920	1.792	1.456
VOL. WGT. MEAN	.	39.55	11.14	7.53	3.19	15.338	1.507	1.254
MISSING VALUES	0	0	0	0	0	0	0	0

# OF SAMPLES	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
13	13	13	13	13	13	13	13	13
MAXIMUM	5.967	36.332	1.922	260.40	13.28	174.00	11803.09	52.20
MINIMUM	0.000	0.734	0.000	22.40	0.00	18.60	101.20	3.72
ARITH. MEAN	2.358	12.076	0.420	124.49	3.79	47.46	3099.39	17.13
ARITH. STD. DEV.	1.613	10.050	0.486	75.36	3.98	46.18	5025.46	20.28
GEOM. MEAN	2.164	7.545	0.409	99.71	2.85	35.92	518.12	9.34
1ST QUARTILE	1.240	4.710	0.112	57.12	0.00	20.61	101.20	3.72
2ND QUARTILE	2.324	9.766	0.306	106.24	3.26	30.21	246.63	6.29
3RD QUARTILE	2.754	16.240	0.508	189.20	6.09	48.40	268.86	6.97
VOL. WGT. MEAN	3.522	12.076	0.633	114.76	8.42	41.75	6104.34	10.98
MISSING VALUES	0	0	0	2	2	4	9	9

# OF SAMPLES	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	4.35	893.20	24.84	8.70	17.98	2914.50	647.69
MINIMUM	1.10	80.64	3.14	0.00	0.00	337.70	11.49
ARITH. MEAN	2.39	368.22	9.09	2.39	2.88	1002.18	255.62
ARITH. STD. DEV.	0.91	272.96	7.37	3.08	5.27	639.25	218.25
GEOM. MEAN	2.22	267.02	7.06	1.99	1.91	857.50	123.13
1ST QUARTILE	1.96	98.90	4.32	0.00	0.00	630.36	29.07
2ND QUARTILE	2.15	294.80	6.21	0.00	0.00	854.00	268.92
3RD QUARTILE	2.65	597.60	9.85	5.64	4.49	1252.40	417.01
VOL. WGT. MEAN	2.20	339.45	10.19	4.23	10.07	1002.18	255.62
MISSING VALUES	2	2	7	2	2	0	0

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STATION: GERALDTON MIC TYPE A SITE NO.1

EQUIVALENT
PREC. DEPTH
MM

# OF SAMPLES	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	244.08	28.48	14.92	13.82	178.360	3.840	21.560
MINIMUM	3.33	2.22	0.33	0.33	0.000	0.056	0.000
ARITH. MEAN	58.21	10.81	6.91	5.20	25.438	1.609	3.862
ARITH. STD. DEV.	60.59	7.12	4.45	4.37	45.819	1.361	6.460
GEOM. MEAN	36.97	8.57	5.03	3.16	8.517	0.989	1.429
1ST QUARTILE	24.64	6.50	4.22	1.75	3.360	0.542	0.056
2ND QUARTILE	37.80	8.88	5.50	3.68	9.180	1.080	0.630
3RD QUARTILE	67.20	14.49	9.80	8.16	31.280	3.390	3.680
VOL. WGT. MEAN	58.21	10.81	6.91	5.20	28.522	1.609	4.565
MISSING VALUES	0	0	0	0	0	0	0

# OF SAMPLES	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	233.910	16.170	312.80	65.04	311.88	658.45	42.14
MINIMUM	0.000	0.000	2.89	0.00	25.53	87.89	0.44
ARITH. MEAN	30.747	1.825	78.12	10.32	99.25	378.75	17.84
ARITH. STD. DEV.	64.064	4.317	78.24	17.57	84.38	197.77	11.66
GEOM. MEAN	5.613	0.990	49.61	4.09	75.23	307.89	11.08
1ST QUARTILE	0.588	0.000	35.28	0.00	51.45	127.50	12.73
2ND QUARTILE	5.856	0.172	48.09	4.15	70.00	467.16	14.92
3RD QUARTILE	10.080	1.021	93.10	10.12	88.20	517.29	20.75
VOL. WGT. MEAN	34.084	2.879	78.09	19.20	106.68	466.75	20.57
MISSING VALUES	0	0	1	1	4	6	6

FREEH+
LAB

ACIDITY GRAN
UG/M**2

ARSENIC
UG/M**2

CADMIUM
UG/M**2

COPPER
UG/M**2

ALUMINUM
UG/M**2

VANADIUM
UG/M**2

# OF SAMPLES	ACIDITY GRAN UG/M**2	ARSENIC UG/M**2	CADMIUM UG/M**2	COPPER UG/M**2	ALUMINUM UG/M**2	VANADIUM UG/M**2	FREEH+ LAB UG/M**2
13	13	13	13	13	13	13	13
MAXIMUM	2214.80	13.56	15.49	19.44	1734.40	14.24	944.70
MINIMUM	361.86	0.00	0.00	10.08	27.75	0.33	4.28
ARITH. MEAN	1317.46	3.23	3.45	14.86	560.85	3.41	370.08
ARITH. STD. DEV.	579.51	4.52	4.37	2.86	465.01	3.47	301.34
GEOM. MEAN	1180.39	2.22	2.42	14.57	369.26	2.27	195.05
1ST QUARTILE	940.80	0.00	0.00	13.86	235.20	1.89	121.71
2ND QUARTILE	1021.20	0.00	2.00	14.48	411.30	2.58	258.97
3RD QUARTILE	1735.36	5.83	5.15	16.81	813.60	3.25	510.43
VOL. WGT. MEAN	1317.46	10.17	8.68	12.18	560.62	3.41	370.08
MISSING VALUES	0	1	1	7	1	1	0

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STATION: WOLF RIDGE MIC TYPE A SITE NO.1

		EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	:	2		2	2	2	2	2	2	2
MAXIMUM	:	50.1		126.80	35.95	10.91	6.10	44.619	1.605	1.605
MINIMUM	:	32.1		72.65	30.06	6.01	2.51	14.529	0.751	1.002
ARITH. MEAN	:	41.1		99.72	33.01	8.46	4.30	29.574	1.178	1.304
ARITH. STD. DEV.	:	9.0		27.08	2.95	2.45	1.80	15.045	0.427	0.302
GEOM. MEAN	:	40.1		95.97	32.87	8.10	3.91	25.461	1.098	1.268
1ST QUARTILE	:	32.1		72.65	30.06	6.01	2.51	14.529	0.751	1.002
2ND QUARTILE	:	41.1		99.72	33.01	8.46	4.30	29.574	1.178	1.304
3RD QUARTILE	:	50.1		126.80	35.95	10.91	6.10	44.619	1.605	1.605
VOL. WGT. MEAN	:	.		99.72	33.01	8.46	4.30	29.574	1.178	1.304
MISSING VALUES	:	0		0	0	0	0	0	0	0

		SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	:	2	2	2	2	2	2	2	2
MAXIMUM	:	2.729	42.051	0.128	256.80	24.72	353.10	2022.30	125.19
MINIMUM	:	1.754	14.529	0.000	90.18	7.01	240.48	375.88	55.11
ARITH. MEAN	:	2.241	28.290	0.064	173.49	15.87	296.79	1199.09	90.15
ARITH. STD. DEV.	:	0.488	13.761	0.064	83.31	8.85	56.31	823.21	35.04
GEOM. MEAN	:	2.187	24.718	0.358	152.18	13.17	291.40	871.86	83.06
1ST QUARTILE	:	1.754	14.529	0.000	90.18	7.01	240.48	375.88	55.11
2ND QUARTILE	:	2.241	28.290	0.064	173.49	15.87	296.79	1199.09	90.15
3RD QUARTILE	:	2.729	42.051	0.128	256.80	24.72	353.10	2022.30	125.19
VOL. WGT. MEAN	:	2.241	28.290	0.164	173.49	15.87	296.79	1199.09	90.15
MISSING VALUES	:	0	0	0	0	0	0	0	0

		VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	:	2	2	2	2	2	2	2
MAXIMUM	:	19.90	1476.60	60.99	11.88	21.51	3582.15	2040.98
MINIMUM	:	5.51	325.65	60.99	6.01	15.03	3274.20	1723.87
ARITH. MEAN	:	12.71	901.13	60.99	8.94	18.27	3428.18	1882.42
ARITH. STD. DEV.	:	7.20	575.48	0.00	2.93	3.24	153.97	158.55
GEOM. MEAN	:	10.47	693.44	60.99	8.45	17.98	3424.72	1875.73
1ST QUARTILE	:	5.51	325.65	60.99	6.01	15.03	3274.20	1723.87
2ND QUARTILE	:	12.71	901.13	60.99	8.94	18.27	3428.18	1882.42
3RD QUARTILE	:	19.90	1476.60	60.99	11.88	21.51	3582.15	2040.98
VOL. WGT. MEAN	:	12.71	901.13	78.09	8.94	18.27	3428.18	1882.42
MISSING VALUES	:	0	0	1	0	0	0	0

PART VI

SUMMARY STATISTICS OF PRECIPITATION DEPOSITION BY REGION

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

REGION: CE

EQUIVALENT
 PREC. DEPTH
 MM

# OF SAMPLES	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
MAXIMUM	58	58	58	58	58	58	58
MINIMUM	139.0	69.34	314.60	39.60	214.500	10.400	41.925
ARITH. MEAN	3.0	2.88	1.47	0.68	0.940	0.000	0.000
ARITH. STD. DEV.	66.5	36.18	21.42	10.09	30.521	2.648	3.007
GEOM. MEAN	26.5	15.04	42.04	7.05	29.743	1.933	6.435
1ST QUANTILE	59.8	31.89	13.68	7.84	22.424	2.106	1.776
2ND QUANTILE	48.0	26.01	8.74	5.58	17.820	1.320	1.140
3RD QUANTILE	60.8	36.34	14.39	8.56	24.400	2.430	1.560
VOL. WGT. MEAN	86.0	47.08	21.00	14.04	32.400	3.225	2.276
MISSING VALUES	0	36.38	21.54	10.15	30.746	2.839	3.078
		6	6	6	5	6	6

# OF SAMPLES	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
MAXIMUM	58	58	58	58	58	58	58
MINIMUM	17.820	27.300	455.80	147.00	4289.41	8279.00	261.74
ARITH. MEAN	0.000	0.000	37.20	0.00	99.00	133.30	1.66
ARITH. STD. DEV.	3.805	0.960	160.07	21.45	527.96	1590.10	92.25
GEOM. MEAN	4.006	3.718	91.07	25.45	782.90	1920.51	59.25
1ST QUANTILE	2.599	0.411	134.70	10.17	358.09	965.18	66.01
2ND QUANTILE	1.200	0.122	90.18	0.00	240.48	480.20	51.00
3RD QUANTILE	2.554	0.278	153.00	14.76	330.00	796.60	77.70
VOL. WGT. MEAN	4.170	0.441	211.20	25.84	442.00	1534.00	125.19
MISSING VALUES	3.968	1.133	156.83	28.68	529.66	1800.64	88.25
	6	5	7	7	16	29	15

FREEH+
 LAB

ACIDITY GRAN
 UG/M**2

ARSENIC
 UG/M**2

CADMIUM
 UG/M**2

COPPER
 UG/M**2

ALUMINUM
 UG/M**2

VANADIUM
 UG/M**2

# OF SAMPLES	ACIDITY GRAN UG/M**2	ARSENIC UG/M**2	CADMIUM UG/M**2	COPPER UG/M**2	ALUMINUM UG/M**2	VANADIUM UG/M**2	FREEH+ LAB UG/M**2
MAXIMUM	58	58	58	58	58	58	58
MINIMUM	98333.00	41.00	1575.00	288.09	3360.00	38.28	7056.68
ARITH. MEAN	336.00	0.00	0.00	9.61	186.00	0.00	1.79
ARITH. STD. DEV.	6628.07	11.07	38.31	75.12	790.27	12.98	3273.40
GEOM. MEAN	13054.82	9.79	217.56	51.34	543.51	8.80	1783.29
1ST QUANTILE	4321.23	6.14	5.40	59.54	665.73	9.66	2384.78
2ND QUANTILE	2824.40	0.00	2.22	47.88	415.80	5.88	1723.87
3RD QUANTILE	4996.50	11.78	6.60	68.37	614.00	12.90	3350.73
VOL. WGT. MEAN	6616.40	18.06	10.20	90.20	1020.00	18.29	4223.14
MISSING VALUES	6665.22	15.02	49.58	72.22	783.27	13.28	3291.75
	6	7	7	24	8	7	6

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
1990 SUMMARY STATISTICS OF DEPOSITION

REGION: NE

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	87	87	87	87	87	87	87	87
MAXIMUM	263.0	828.45	144.65	153.40	112.97	152.540	25.700	28.930
MINIMUM	3.0	21.45	0.99	0.96	0.00	2.370	0.150	0.120
ARITH. MEAN	81.4	193.34	33.08	15.33	11.26	33.557	3.268	3.196
ARITH. STD. DEV.	47.9	134.42	24.56	19.13	17.35	25.040	3.958	4.210
GEOM. MEAN	67.3	152.79	25.09	10.55	6.35	26.184	2.163	2.042
1ST QUARTILE	49.0	90.20	14.70	6.16	3.60	17.670	1.485	1.100
2ND QUARTILE	69.0	172.50	26.73	10.53	6.00	27.270	2.260	1.965
3RD QUARTILE	112.0	254.40	43.82	17.68	13.00	38.150	3.160	3.600
VOL. WGT. MEAN	.	193.34	33.08	15.31	11.41	33.517	3.264	3.192
MISSING VALUES	0	0	0	1	0	1	1	1
		AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	87	87	87	87	87	87	87	87
MAXIMUM	70.705	111.512	5.145	4471.00	1230.00	24617.06	22292.19	3103.00
MINIMUM	0.000	1.896	0.000	10.50	0.00	34.00	114.00	5.00
ARITH. MEAN	6.043	29.049	0.486	231.34	97.69	942.81	2361.06	188.43
ARITH. STD. DEV.	11.472	21.176	0.718	477.59	174.72	3195.55	4326.06	380.30
GEOM. MEAN	2.897	22.207	0.504	147.52	23.68	335.28	955.69	89.99
1ST QUARTILE	1.410	13.588	0.072	92.80	9.18	181.90	411.58	32.30
2ND QUARTILE	2.390	23.956	0.289	152.00	20.58	265.00	730.00	92.10
3RD QUARTILE	5.830	35.244	0.475	235.20	123.84	492.00	1378.00	197.60
VOL. WGT. MEAN	6.438	29.049	0.591	231.34	120.23	889.22	2266.18	183.62
MISSING VALUES	1	0	1	0	0	18	42	15
		ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	87	87	87	87	87	87	87	87
MAXIMUM	52.60	8416.00	1599.00	3220.00	179.20	19698.70	12587.97	0.28
MINIMUM	0.78	100.00	9.68	0.00	0.00	80.60	3132.84	0.28
ARITH. MEAN	10.02	990.13	245.14	69.30	19.19	4917.50	2321.94	1941.36
ARITH. STD. DEV.	9.71	1330.20	320.49	359.52	34.37	3302.97	1321.49	2802.66
GEOM. MEAN	7.27	621.51	120.61	6.56	6.01	3756.83	2296.00	4304.70
1ST QUARTILE	4.80	313.60	50.00	0.00	0.00	2296.00	4238.40	3146.61
2ND QUARTILE	6.84	627.20	102.00	6.30	8.16	6792.00	4939.11	2
3RD QUARTILE	11.70	1008.00	323.40	15.80	21.70	6792.00	3146.61	2
VOL. WGT. MEAN	10.02	990.13	238.70	98.54	34.02	4939.11	3146.61	2
MISSING VALUES	0	0	20	0	0	2	2	2

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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REGION: NW

EQUIVALENT PREC. DEPTH MM		SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	68	68	68	68	68	68	68	68
MAXIMUM	145.0	244.08	32.30	25.66	13.82	178.360	5.131	21.560
MINIMUM	7.1	2.01	1.28	0.00	0.33	0.000	0.000	0.000
ARITH. MEAN	48.8	52.61	12.05	7.59	3.56	19.033	1.499	2.208
ARITH. STD. DEV.	29.0	40.99	7.09	5.25	2.64	24.765	1.087	3.479
GEOM. MEAN	40.7	38.32	9.86	5.75	2.71	10.918	1.151	1.325
1ST QUARTILE	25.0	22.23	6.90	3.42	1.74	4.510	0.700	0.406
2ND QUARTILE	44.1	42.08	10.51	6.18	3.02	11.603	1.233	1.351
3RD QUARTILE	62.0	73.31	16.50	10.72	4.56	27.030	2.158	2.550
VOL. WGT. MEAN	.	52.61	12.05	7.60	3.56	19.510	1.527	2.403
MISSING VALUES	0	0	0	0	0	0	0	0

SODIUM MG/M**2		AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	68	68	68	68	68	68	68	68
MAXIMUM	11.518	233.910	16.170	425.14	65.04	437.10	11803.09	72.41
MINIMUM	0.000	0.000	0.000	2.66	0.00	8.98	87.89	0.44
ARITH. MEAN	2.594	16.850	0.746	123.80	7.86	107.67	817.28	19.06
ARITH. STD. DEV.	2.273	30.438	2.044	91.78	11.52	92.25	2055.58	17.00
GEOM. MEAN	2.022	6.970	0.513	87.20	4.17	77.91	410.76	11.88
1ST QUARTILE	1.230	3.102	0.028	48.82	0.00	51.24	285.69	6.97
2ND QUARTILE	2.030	10.205	0.283	102.14	5.44	75.83	376.07	14.66
3RD QUARTILE	3.045	19.800	0.475	167.70	9.63	133.00	617.73	23.57
VOL. WGT. MEAN	2.822	17.305	0.977	120.07	13.71	105.39	904.67	17.31
MISSING VALUES	0	0	0	4	4	21	38	30

VANADIUM UG/M**2		ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	68	68	68	68	68	68	68
MAXIMUM	14.24	1734.40	76.83	15.49	25.82	8769.40	1442.26
MINIMUM	0.00	14.74	3.00	0.00	0.00	171.11	4.28
ARITH. MEAN	3.35	390.08	16.00	2.36	4.35	1460.68	424.82
ARITH. STD. DEV.	2.75	306.68	14.28	3.25	6.25	1184.74	369.65
GEOM. MEAN	2.56	283.65	11.99	1.96	2.54	1168.01	229.47
1ST QUARTILE	1.88	160.00	6.93	0.00	0.00	820.04	112.72
2ND QUARTILE	2.52	302.35	11.38	0.00	0.00	1140.95	340.23
3RD QUARTILE	4.32	514.50	18.50	4.44	6.00	1793.75	581.37
VOL. WGT. MEAN	3.46	378.55	15.36	6.21	11.49	1460.68	424.82
MISSING VALUES	4	6	32	4	4	0	0

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

REGION: SE

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	43	43	43	43	43	43	43	43
MAXIMUM	125.0	543.90	65.66	112.70	89.25	93.100	36.505	9.555
MINIMUM	24.0	49.20	8.99	2.87	0.93	5.330	0.600	0.205
ARITH. MEAN	63.3	194.45	36.04	14.49	10.29	25.808	3.094	2.046
ARITH. STD. DEV.	22.9	103.74	14.96	18.07	13.98	15.716	5.807	1.835
GEOM. MEAN	59.0	169.90	32.33	10.26	7.26	21.925	1.942	1.472
1ST QUARTILE	46.0	123.20	22.80	5.60	5.40	14.640	1.150	0.840
2ND QUARTILE	63.0	162.50	39.60	10.58	7.37	23.800	2.058	1.678
3RD QUARTILE	80.0	255.00	46.97	16.40	9.84	31.980	2.695	2.190
VOL. WGT. MEAN	.	186.47	34.56	13.94	9.87	24.842	2.978	1.970
MISSING VALUES	0	6	6	7	6	7	7	7

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	43	43	43	43	43	43	43	43
MAXIMUM	13.760	71.200	5.635	833.00	61.32	1825.00	2080.00	182.50
MINIMUM	0.465	4.346	0.000	35.88	0.00	78.96	204.00	3.22
ARITH. MEAN	3.468	24.639	0.682	164.13	16.20	441.03	867.37	87.73
ARITH. STD. DEV.	2.536	14.009	1.365	148.91	13.86	359.67	551.05	45.74
GEOM. MEAN	2.720	21.065	0.640	123.52	9.13	333.30	708.69	71.16
1ST QUARTILE	1.500	15.914	0.000	62.16	3.96	258.50	429.00	46.20
2ND QUARTILE	2.900	22.244	0.250	121.00	14.88	381.20	751.72	92.00
3RD QUARTILE	4.620	29.070	0.392	224.00	24.00	480.00	1222.00	120.40
VOL. WGT. MEAN	3.338	23.627	1.037	158.76	20.93	438.87	853.81	85.41
MISSING VALUES	7	6	6	8	8	17	20	12

	VANADIUM UG/M**2	ALUMINIUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	43	43	43	43	43	43	43
MAXIMUM	32.50	2156.00	414.81	109.20	38.40	67914.00	7124.56
MINIMUM	2.64	151.70	5.04	0.00	0.00	1522.50	15.31
ARITH. MEAN	13.91	958.26	66.87	15.83	7.76	8241.96	3596.28
ARITH. STD. DEV.	9.16	509.21	101.56	28.43	10.57	13482.27	1898.88
GEOM. MEAN	11.08	792.73	33.16	4.61	3.54	5177.85	2724.53
1ST QUARTILE	6.20	540.00	11.36	0.00	0.00	3588.20	1938.97
2ND QUARTILE	10.92	983.50	33.00	3.85	0.00	4790.50	3305.35
3RD QUARTILE	21.56	1280.00	53.13	11.88	11.20	7696.00	5408.66
VOL. WGT. MEAN	13.45	940.63	69.62	28.81	16.24	7903.54	3448.61
MISSING VALUES	8	9	24	8	8	6	6

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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REGION: SW

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	
# OF SAMPLES	89	89	89	89	89	89	89	89	
MAXIMUM	213.0	724.20	117.15	129.15	78.30	102.240	34.440	27.720	
MINIMUM	23.0	61.88	7.83	0.00	2.03	7.700	0.000	0.000	
ARITH. MEAN	80.5	248.89	42.54	24.52	14.39	38.185	5.077	3.714	
ARITH. STD. DEV.	33.0	124.88	16.97	17.68	11.65	20.096	4.345	4.944	
GEOM. MEAN	74.2	220.62	39.24	19.36	11.95	33.016	4.035	2.480	
1ST QUARTILE	59.7	156.56	31.50	14.26	8.80	22.470	2.610	1.492	
2ND QUARTILE	75.0	232.50	39.60	22.16	11.72	32.468	4.405	2.285	
3RD QUARTILE	94.4	299.65	51.62	29.44	17.20	52.800	6.072	3.450	
VOL. WGT. MEAN	.	248.11	42.40	24.61	14.34	37.796	5.080	3.767	
MISSING VALUES	0	1	1	3	1	3	3	3	

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2	
# OF SAMPLES	89	89	89	89	89	89	89	89	
MAXIMUM	35.776	107.440	8.007	1808.10	2900.00	10595.56	10071.73	1479.00	
MINIMUM	0.000	5.850	0.000	35.63	0.00	98.35	217.25	9.30	
ARITH. MEAN	4.970	35.063	0.866	259.96	67.34	884.35	1388.36	138.32	
ARITH. STD. DEV.	4.861	19.874	1.450	277.98	316.04	1541.24	1916.85	194.97	
GEOM. MEAN	3.673	29.745	0.525	188.94	12.37	522.09	839.59	94.38	
1ST QUARTILE	2.205	18.354	0.220	105.40	6.18	322.40	449.87	57.91	
2ND QUARTILE	3.799	30.794	0.402	184.50	16.43	449.23	643.00	97.02	
3RD QUARTILE	6.723	48.790	0.745	294.00	31.32	830.72	1302.00	149.00	
VOL. WGT. MEAN	5.444	34.952	0.938	257.86	89.38	881.64	1440.23	134.65	
MISSING VALUES	3	1	2	2	2	25	39	14	

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2	
# OF SAMPLES	89	89	89	89	89	89	89	
MAXIMUM	1450.00	8968.00	1480.64	2900.00	2900.00	18424.50	12542.37	
MINIMUM	0.00	393.75	11.22	0.00	0.00	1542.84	641.55	
ARITH. MEAN	31.98	1420.57	119.85	66.53	42.81	5686.86	3670.68	
ARITH. STD. DEV.	153.28	1350.53	253.17	338.00	308.29	2874.71	1981.39	
GEOM. MEAN	13.02	1126.52	61.77	7.94	5.14	5043.88	3170.40	
1ST QUARTILE	7.70	736.89	32.67	3.93	0.00	3864.20	2418.00	
2ND QUARTILE	13.80	1111.50	52.46	8.25	9.30	5226.15	3349.12	
3RD QUARTILE	21.28	1474.20	112.89	14.72	16.14	6878.12	4580.49	
VOL. WGT. MEAN	32.24	1404.34	113.89	84.41	75.83	5662.12	3654.71	
MISSING VALUES	2	10	36	2	3	3	3	

ONTARIO MINISTRY OF ENVIRONMENT & ENERGY
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
 1990 SUMMARY STATISTICS OF DEPOSITION

REGION: Z

	EQUIVALENT PREC. DEPTH MM	SULFATE MG/M**2	NITRATE MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2	KJELDAHL MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2
# OF SAMPLES	11	11	11	11	11	11	11	11
MAXIMUM	111.9	288.80	57.07	17.65	11.36	60.426	2.824	3.905
MINIMUM	32.1	72.65	20.06	4.26	2.51	14.529	0.751	0.791
ARITH. MEAN	75.9	184.50	36.34	9.73	6.40	31.940	1.503	1.746
ARITH. STD. DEV.	22.0	67.02	9.46	4.12	2.40	12.107	0.710	0.852
GEOM. MEAN	72.2	171.02	35.12	8.85	5.92	29.801	1.339	1.581
1ST QUARTILE	60.8	126.80	30.06	6.01	5.42	22.828	0.791	1.161
2ND QUARTILE	77.4	168.00	35.81	8.78	6.10	29.792	1.420	1.520
3RD QUARTILE	89.4	245.85	38.70	13.65	7.35	36.712	2.235	2.238
VOL. WGT. MEAN	.	184.50	36.34	9.73	6.40	31.940	1.503	1.746
MISSING VALUES	0	0	0	0	0	0	0	0

	SODIUM MG/M**2	AMMONIUM MG/M**2	PHOSPHOR MG/M**2	MANGANESE UG/M**2	NICKEL UG/M**2	ZINC UG/M**2	IRON UG/M**2	LEAD UG/M**2
# OF SAMPLES	11	11	11	11	11	11	11	11
MAXIMUM	8.165	43.417	0.994	353.00	26.83	2612.20	2022.30	125.19
MINIMUM	0.000	14.529	0.000	85.12	0.00	134.28	375.88	44.30
ARITH. MEAN	2.748	26.286	0.405	176.02	15.95	568.74	881.42	88.78
ARITH. STD. DEV.	2.351	9.130	0.278	79.62	7.63	836.73	538.72	25.85
GEOM. MEAN	2.430	24.803	0.510	159.27	12.70	310.33	745.91	84.60
1ST QUARTILE	0.000	17.957	0.128	99.40	10.94	162.54	417.59	76.88
2ND QUARTILE	2.682	25.986	0.439	174.02	15.48	240.48	634.23	85.41
3RD QUARTILE	3.675	29.860	0.565	241.38	22.83	353.10	1094.40	108.54
VOL. WGT. MEAN	3.934	26.286	0.480	176.02	17.62	565.11	951.13	90.19
MISSING VALUES	0	0	0	0	0	4	3	1

	VANADIUM UG/M**2	ALUMINUM UG/M**2	COPPER UG/M**2	CADMIUM UG/M**2	ARSENIC UG/M**2	ACIDITY GRAN UG/M**2	FREEH+ LAB UG/M**2
# OF SAMPLES	11	11	11	11	11	11	11
MAXIMUM	57.07	1476.60	87.01	11.88	21.51	6901.08	5413.70
MINIMUM	3.16	325.65	13.33	0.00	0.00	3274.20	1723.87
ARITH. MEAN	22.90	835.32	50.40	2.79	8.01	5304.20	3833.69
ARITH. STD. DEV.	14.34	358.42	27.06	3.98	7.86	1288.84	1169.06
GEOM. MEAN	17.75	751.48	41.08	2.07	4.24	5133.69	3617.19
1ST QUARTILE	12.00	581.88	13.33	0.00	0.00	3976.00	2762.22
2ND QUARTILE	24.62	756.00	50.62	0.00	8.51	5885.04	4181.55
3RD QUARTILE	30.96	1107.40	60.99	6.15	15.03	6516.38	4911.22
VOL. WGT. MEAN	22.90	835.32	50.93	10.11	16.87	5304.20	3833.69
MISSING VALUES	0	0	7	0	0	0	0

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